July 1974 Number 359-Part II

Solar-Geophysical Data comprehensive reports

Data for January 1974–December 1973
& Miscellanea

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Solar - Geophysical Data

NO. 359 JULY 1974

Part II (Comprehensive Reports)

DATA FOR
JANUARY 1974
DECEMBER 1973
& MISCELLANEA

NATIONAL GEOPHYSICAL AND SOLAR - TERRESTRIAL DATA CENTER
BOULDER, COLORADO

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To standardize referencing these reports in the open literature, the following format is recommended:

Solar-Geophysical Data, CRPL-FB 135*, pages, issue date, U.S. Department of Commerce, (Boulder, Colorado, U.S.A. 80302).

*CRPL-FB 135 through 269
IER-FB 270 through 298
299 Part I or 299 Part II to number of current issue.

SOLAR - GEOPHYSICAL DATA

No. 359

Issued in two parts

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Solar - Terrestrial Data Services Division

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For explanations of the data contained herein see *Descriptive Text* published as supplement to February 1974 *Solar-Geophysical Data* (Number 354).

Hα SOLAR FLARES
Confirmed
JANUARY 1974

OBSERV-ATORY	OBSERVED UT				LOCATION						DURA-TION	IM-POR-TANCE	OBS.		MEASUREMENTS					REMARKS
	DATE JAN	START	END	MAX. PHASE	APPROX. LAT.	APPROX. MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY		MIN.		COND.	TYPE	TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH H.α	MAX. INT. %	
	01	1220	1514	NO FLARE PATROL																
	01	1519	1540	NO FLARE PATROL																
	01	1545	2230	NO FLARE PATROL																
	01	2233	2335	NO FLARE PATROL																
GRPS0323	02	1105	1123	1112	S16	E02	.225	12684	2.6		18	--N				.91				3 3 3 5
CANR	02	1100	1125	1115	S15	E04	.217	12684	2.8		25	-N		V	1115	.31	.30			
MONT	02	1107	1120	1109	S16	E01	.224	12684	2.5		13	-N		C	1109	.72				
KHAR	02	1107E	11150		S17	E01	.240	12684	2.5		80	-N		C	1109	1.70	1.70			DH
324 BOUL	02	1612	1625	1614	S15	W03	.212	12684	2.5		13	-N		V						2
	02	1927	2021	NO FLARE PATROL																
327 BOUL	03	1521	1529	1522	N06	E90	1.000	12686	10.4		8	--F		C	1522	.21	.85			3
	03	1859	1913	NO FLARE PATROL																
328 RAMY	03	1939E	19460		S12	E87	.998	12699	10.3		70	--F	3	V						DE 2
	03	2114	2120	NO FLARE PATROL																
329 RAMY	04	1531	1539	1534	N16	E01	.332	12696	4.7		8	--F	3	C		.19				DE 2
	04	2001	2007	NO FLARE PATROL																
	05	1645	1708	NO FLARE PATROL																
	05	1723	1827	NO FLARE PATROL																
	05	1906	1927	NO FLARE PATROL																
	05	2001	2229	NO FLARE PATROL																
	06	1948	2234	NO FLARE PATROL																
GRPS0331	06	2230	2235	2231	S14	W57	.840	12684	2.7		5	-N				.54				2 2 1 2
BOUL	06	2230	2237	2231	S13	W57	.839	12684	2.7		7	-N		C	2232	.54	.98			
CRON	06	2231E	2232		S15	W57	.841	12684	2.7		10	-N		V						
	07	1835	1841	NO FLARE PATROL																
	07	1847	1904	NO FLARE PATROL																
	07	1945	2240	NO FLARE PATROL																
332 CRON	08	0101	01140		S22	E54	.823	12698	12.1		130	--F		V		.72				1
GRPS0333	08	1144	1200	1147	N07	E15	.317	12686	9.6		16	--N				.53				4 3 2 6
RAMY	08	1144	1202	1148	N08	E15	.326	12686	9.6		18	-N	3	C		.65				DE
MONT	08	1144	1157	1146	N07	E15	.317	12686	9.6		13	-N		C	1146	.41				E
TEHR	08	1145E	1155	1146U	N18	E16	.453	12686	9.7		100	-N	3	C		.21				DE
KHAR	08	1147E	11530		N07	E15	.317	12686	9.6		60	-F		P						D
GRPS0335	08	1231	1246	1234	S06	E79	.981	12694	14.4		15	--F				.12				2 2 1 4
RAMY	08	1230	1246	1234	S04	E82	.990	12694	14.7		16	-N	3	C						DE
TEHR	08	1231	12410	1234	S07	E76	.969	12694	14.2		100	-F	2	C		.12				
GRPS0336	08	1539	1551	1545	S08	E78	.977	12694	14.5		12	--F				.36				2 2 2 3
MCMA	08	1535	1551	1545	S08	E77	.973	12694	14.4		16	-N		C	1545	.31	1.20			E
CANR	08	1543	1550	1544	S07	E79	.980	12694	14.6		7	-F		V		.41	.80			
	08	1750	1804	NO FLARE PATROL																
	08	1805	1932	NO FLARE PATROL																
	08	2005	2042	NO FLARE PATROL																
	08	2106	2110	NO FLARE PATROL																
	08	2129	2235	NO FLARE PATROL																
GRPS0337	09	2040	2055	2045	S17	E90	1.000	12702	16.6		15	--F				.19				2 2 1 3
PALE	09	2040	2055	2043	S18	E90	1.000	12702	16.6		15	-F	3	C		.19				
RAMY	09	2046E	2055	2046U	S16	E90	1.000	12702	16.6		90	-F	3	V						

Hα SOLAR FLARES
Confirmed
JANUARY 1974

OBSERV-ATORY	OBSERVED UT				LOCATION						DURA-TION	IM-POR-TANCE	OBS.		MEASUREMENTS					REMARKS
	DATE JAN	START	END	MAX. PHASE	APPROX. LAT.	APPROX. MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY		MIN.		COND.	TYPE	TIME — UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT. %	
GRP50341	10	0940	1004	0946	S21	E90	1.000	12702	17.2		24	1F				1.44				3 2 1 6
KHAR	10	0940E	1002	0948	S17	E89	.999	12702	17.1		22D	1N		C						H
CATA	10	0944E	1000D	0944	S24	E90	1.000	12702	17.2		16D	1F			0944	1.44			(135)	A
MONT	10	0951E	1004	1000	S17	E85	.995	12702	16.8		13D	-N		C	1000	.21				D
342 MONT	10	1025	1040	1038	S09	E90	1.000	19313	17.2		15	--N		C	1030	.21				4
343 MONT	10	1108	1113	1109	S13	E54	.810	19312	14.5		5	--F		C	1109	.10				3
	10	2150	2151	NO FLARE PATROL																
	10	2153	2156	NO FLARE PATROL																
	10	2214	2233	NO FLARE PATROL																
GRP50347	11	0825	0915	0834	N05	W28	.491	19311	9.3		50	-N				1.86				2 2 2 5
MONT	11	0825	0848D	0838	N05	W32	.548	19311	9.0		23D	-N		C	0838	2.27				
CATA	11	0830E	0915	0830	N04	W23	.413	19311	9.6		45D	-N			0830	1.44	1.59		(158)	
GRP50348	11	1315	1335	1319	S09	E38	.616	19312	14.4		20	--F				.62				2 2 2 3
RAMY	11	1314	1318D	1318U	S08	E38	.615	19312	14.4		4D	-F	3	C		.37				DE
CATA	11	1315	1335	1320	S09	E38	.616	19312	14.4		20	-N			1320	.87	1.10		(151)	
	11	2225	2247	NO FLARE PATROL																
349 VORO	12	0153	0159	0153	S10	E60	.864	19313	16.6		6	-B		C	0153	.65	1.25		63	OJ 3
GRP50350	12	0653	0703	0656	S13	E56	.829	19313	16.5		10	-F				.71				2 2 2 4
ABST	12	0653	0700	0655	S14	E56	.829	19313	16.5		7	-N		C	0655	.90	1.70			D
MANI	12	0657E	0705D	0657U	S12	E56	.828	19313	16.5		8D	-F	1		0657	.52	.89			F
GRP50352	12	1015	1023	1017	S13	E56	.829	19313	16.6		8	-N				1.55				3 3 2 7
KHAR	12	1014E	1023	1017	S13	E55	.819	19313	16.6		9D	1N		C	1017	1.96	3.50			D
CRON	12	1015E	1023	1017	S13	E56	.829	19313	16.6		8D	-N		V						
MONT	12	1015	1024	1016	S12	E56	.828	19313	16.6		9	-B		C	1016	1.13				H
GRP50353	12	1028	1047	1032	S18	E82	.988	12703	18.6		19	1B				1.36				4 4 3 7
MONT	12	1028	1045	1033	S19	E80	.982	12703	18.4		17	-B		C	1033	.72				
CANR	12	1028	1045	1032	S17	E83	.990	12703	18.7		17	1B		V		.72				
KHAR	12	1030E	1048	1031	S18	E79	.979	12703	18.4		18D	1N		C	1031	2.63				D
CRON	12	1030E	1050		S19	E84	.992	12703	18.7		20D	1N		V						
354 MCMA	12	1805	1818	1809	S09	E20	.349	12694	14.3		13	--N		C	1809	.62	.70			E 1
355 MCMA	12	1838	1841	1838	S19	E77	.972	12703	18.6		3	--N		C	1838	.15	.60			D 1
	12	1920	1935	NO FLARE PATROL																
356 BOUL	12	2050	2053D	2053	S20	E72	.949	19315	18.3		3D	--F		C	2053	.32	.91			1
357 MITK	13	0529	0540	0533	S19	E71	.943	19315	18.6		11	1B		C	0533	1.44				4
GRP50358	13	1609	1628	1611	N05	W57	.845	12686	9.4		19	-N				.62				2 2 1 4
MCMA	13	1609E	1628D	1611	N05	W57	.845	12686	9.4		19D	-N		P	1611	.62	1.10			E
CANR	13	1610E	1610D	1610D	N05	W56	.836	12686	9.5			-N		V						
GRP50360	13	1650	1659	1654	S18	E61	.876	19315	18.3		9	-N				.57				3 3 3 3
BOUL	13	1650	1700	1653	S20	E63	.892	19315	18.4		10	-N		C	1653	.75	1.63			
CANR	13	1654E	1700	1655	S16	E62	.882	19315	18.4		6D	-N		V	1655	.62	1.50			
RAMY	13	1654E	1658	1654U	S17	E58	.850	19315	18.1		4D	-N	4	V		.33				DE
362 RAMY	14	1229E	1229D	1229U	N06	W73	.959	19311	9.0			-N	2	C		.46				DE 2
363 RAMY	14	1430	1441D	1432U	N08	W14	.321	19318	13.6		11D	--F	3	C		.28				DE 2
364 RAMY	14	1650E	1701	1652	N04	W71	.948	19311	9.4		11D	--F	3	C		.28				DE 2
	14	1735	1756	NO FLARE PATROL																
	14	1811	2209	NO FLARE PATROL																
	14	2250	2320	NO FLARE PATROL																
365 MANI	15	0059	0112	0103	N10	W20	.417	19318	13.5		13	--F	2		0103	.21	.23			2
366 MANI	15	0117E	0124	0119	N06	W80	.986	19311	9.1		7D	--F	2		0119	.31	.80			2
370 MANI	15	0627	0633D	0629	N09	W23	.448	19318	13.5		6D	--F	2		0629	.21	.23			3

Hα SOLAR FLARES
Confirmed
JANUARY 1974

OBSERV-ATORY	OBSERVED UT				LOCATION						DURATION	IMPORTANCE	OBS.		MEASUREMENTS					REMARKS
	DATE JAN	START	END	MAX. PHASE	APPROX. LAT.	APPROX. MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY		MIN.		COND.	TYPE	TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT. %	
GRP50371	15	0707	0730	0717	N05	W79	.983	19311	9.4		23	--F				.42				2 2 2 3
MANI	15	0702	0714	0707	N07	W86	.998	19311	8.8		12	-F	2		0707	.21	.60			
MANI	15	0712	0725D	0717	N04	W80	.986	19311	9.3		130	-N	2		0717	.52	1.33			
CRON	15	0716E	0730		N04	W75	.968	19311	9.7		140	-F		V		.31				
GRP50372	15	0758	0825	0800	N07	W88	1.000	12686	8.7		27	-N				.42				2 2 2 4
CRON	15	0758E	0821	0800	N07	W90	1.000	12686	8.6		230	-N		V		.31				
MANI	15	0758E	0828	0800U	N07	W86	.998	12686	8.9		300	-N	2		0800	.52	1.54			
GRP50375	15	1050	1119	1057	N08	W85	.997	12686	9.1		29	1N				1.37				5 5 5 8
KHAR	15	1020E	1200D	1052	N08	W86	.998	12686	9.0		1000	2N		R	1057	3.40		3.00		EH
ARCE	15	1050E	1114		N06	W84	.995	12686	9.2		240	-N		C	1100	.75				HF
CANR	15	1050	1124	1056	N07	W88	1.000	12686	8.9		34	2N		V	1100	1.65	6.40			
CANR	15	1050	1124		N07	W88	1.000	12686	8.9		34	-N			1118		.70			
MONT	15	1055	1116	1105	N07	W87	.999	12686	8.9		21	-N		C	1105	.41				
ATHN	15	1056E	1120	1056U	N10	W80	.988	12686	9.5		240	-N	2	V		.66				F
GRP50376	15	1127	1147	1135	S14	E62	.881	19321	20.1		20	-N				.85				3 3 2 6
ARCE	15	1126	1141D	1134	S13	E60	.864	19321	20.0		150	1N		C	1139	1.29	2.60			F
MONT	15	1128	1143	1132	S14	E60	.864	19321	20.0		15	-N		C	1132	.41				E
KHAR	15	1133E	1150D	1139	S15	E65	.904	19321	20.4		170	-F		V	1133			1.80		DH
378 RAMY	15	1422E	1429D	1423U	N07	W84	.996	19311	9.3		70	--N	2	V		.21				DE 3
	15	1745	1859	NO FLARE PATROL																
	15	2241	2309	NO FLARE PATROL																
	15	2330	2341	NO FLARE PATROL																
	15	2345	0030	NO FLARE PATROL																
379 MITK	16	0301	0322	0310	S14	E56	.828	19321	20.3		21	-N		C	0310	1.03	1.80			E 3
GRP50383	16	1101	1113	1104	S18	E23	.441	19315	18.2		12	--N				.83				2 2 2 6
CANR	16	1100	1113	1103	S18	E23	.441	19315	18.2		13	-N		V		1.24				
MONT	16	1101	1112	1104	S17	E23	.434	19315	18.2		11	-N		C	1104	.41				E
GRP50384	16	1946	1956	1948	S20	E21	.432	19315	18.4		10	--F				.36				2 2 2 2
RAMY	16	1945	1955	1947	S19	E21	.423	19315	18.4		10	-N	3	C		.28				DE
BOUL	16	1946	1957	1948	S21	E21	.441	19315	18.4		11	-F		C	1948	.43	.46			
	16	2256	2300	NO FLARE PATROL																
	17	2154	2237	NO FLARE PATROL																
GRP50387	18	0206	0239	0223	N04	W65	.910	19318	13.2		33	1N				1.02				2 1 1 5
VORO	18	0206	0239	0223	N04	W65	.910	19318	13.2		33	1N		C	0223	1.02	2.28		67	EK
MANI	18	0206	0233	0210	N07	W65	.913	19318	13.2		27	-F	2		0210	.52	1.04			
389 MONT	18	1124	1130	1127	N10	W73	.962	19318	13.8		6	--N		C	1127	.18				4
	18	1400	1401	NO FLARE PATROL																
	18	1504	1505	NO FLARE PATROL																
	18	1516	1622	NO FLARE PATROL																
	18	1636	1802	NO FLARE PATROL																
390 PALE	18	1851E	1903D	1903U	S17	E12	.291	19321	19.7		120	--F	3	C		.36				F S 1
	18	1943	1945	NO FLARE PATROL																
391 MANI	19	0526	0535	0530	S18	W13	.313	19315	18.3		9	--F	2		0530	.52	.54			2
GRP50392	19	0859	0904	0900	S15	W63	.888	19324	14.6		5	--N				.40				3 3 3 5
MONT	19	0857	0901	0859	S15	W62	.881	19324	14.7		4	-N		C	0859	.21				D
MANI	19	0859E	0907	0901	S14	W64	.896	19324	14.6		80	-N	2		0901	.41	.80			
CATA	19	0900	0905	0900	S15	W64	.896	19324	14.6		5	-N			0900	.58	1.30		(150)	
	19	1225	1230	NO FLARE PATROL																
	19	1240	1250	NO FLARE PATROL																
	19	1445	1500	NO FLARE PATROL																
	19	1510	1535	NO FLARE PATROL																

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OBSERV-ATORY	OBSERVED UT				LOCATION					DURA-TION	IM-POR-TANCE	OBS.		MEASUREMENTS					REMARKS
	DATE JAN	START	END	MAX. PHASE	APPROX. LAT.	APPROX. MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY	MIN.		COND.	TYPE	TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT. %	
	19	1640	1715	NO FLARE PATROL															
393 BOUL	19	1647	1657	1647	S18	W19	.386	19315	18.3	10	--N		V	1647		.40			1
394 BOUL	19	1730	1740	1734	N06	W18	.359	19325	18.4	10	--F		C	1734	.11	.11			1
395 BOUL	19	1840	1849	1842	N06	W18	.359	19325	18.4	9	--F		C	1842	.21	.23			2
399 CATA	20	1325E	1405	1335	N13	W11	.360	12710	19.7	400	--F			1335	.87	.93		(148)	3
GRP50401	20	1836	1849	1838	S16	W07	.224	19321	20.3	13	--N				.43				3 3 3 3
BOUL	20	1835	1855	1838	S15	W08	.220	19321	20.2	20	-F		C	1838	.43	.43			
RAMY	20	1836	1850	1838	S16	W07	.224	19321	20.3	14	-N	4	V		.33				DE
PALE	20	1837E	1842	1837U	S16	W05	.208	19321	20.4	50	-N	3	V		.52				F
	20	2210	2211	NO FLARE PATROL															
402 PALE	20	2254	2316	2300	N07	W37	.627	19325	18.2	22	--N	3	C		.36				F 2
	21	1630	1644	NO FLARE PATROL															
GRP50404	21	1839	1905	1842	N14	W26	.532	12710	19.8	26	--F				.69				2 2 2 2
PALE	21	1838	1905	1842	N14	W25	.520	12710	19.9	27	-F	3	C		.81				U
PALE	21	1838	1905	1855	N14	W25	.520	12710	19.9	27	-F	3	C		.72				U
RAMY	21	1839	1904	1842	N13	W26	.523	12710	19.8	25	-N	4	C		.56				U
GRP50405	21	2047	2059	2052	N07	W48	.759	19325	18.3	12	--N				.54				2 2 2 2
HUAN	21	2044	2058D		N06	W48	.757	19325	18.3	140	-N	1	P	2056	.36	.55			E
PALE	21	2049	2059D	2052U	N07	W47	.748	19325	18.3	100	-N	3	C		.72				F
	21	2059	2107	NO FLARE PATROL															
	21	2214	2223	NO FLARE PATROL															
GRP50406	21	2244	2336	2320	N06	W51	.789	19325	18.1	52	-N				.62				2 2 2 3
CRON	21	2244E	2320		N06	W50	.779	19325	18.2	36D	-N		V		.31				
MANI	21	2307E	2351D	2320U	N06	W52	.800	19325	18.1	44D	-N	1		2320	.93	1.52			F
407 MITK	22	0204	0220	0210	N05	W52	.798	19325	18.2	16	--F		C	0210	.62	1.00			EH 4
GRP50408	22	0232	0453	0344	N06	W51	.789	19325	18.3	141	-F				.72				2 2 1 4
MITK	22	0227	0245	0232	N05	W52	.798	19325	18.2	18	-F		C	0232	.62	1.00			DH
KODA	22	0236	0453	0344	N07	W50	.781	19325	18.4	137	1N		P				2.32		
KODA	22	0236	0453	0245	N07	W50	.781	19325	18.4	137	1N		P	0253	4.70	4.70	2.40		DHKL
MITK	22	0339	0350	0344	N05	W53	.808	19325	18.2	11	-F		C	0344	.72	1.20			EH
GRP50410	22	0837	0915	0851	N06	W55	.829	19325	18.2	38	-N				.85				3 3 3 6
CANR	22	0834	0900D	0845	N07	W55	.831	19325	18.2	26D	-N		V	0845	.72	1.20			
CATA	22	0840	0905D	0855	N05	W56	.837	19325	18.2	25D	-8			0855	.58	1.06		(209)	
CRON	22	0846E	0915D	0852	N07	W55	.831	19325	18.2	29D	-N		V		1.24				
GRP50414	22	1154	1214	1201	N06	W59	.866	19325	18.1	20	-N				.91				5 5 5 7
KHAR	22	1148	1212D	1200	N08	W58	.860	19325	18.1	24D	1N		P	1200	2.68	5.20	1.80		E
MONT	22	1149	1215	1150	N05	W60	.873	19325	18.0	26	-N		C	1150	.21				D
CATA	22	1155	1220	1205	N04	W59	.863	19325	18.1	25	-N			1205	.58	1.14		(186)	
RAMY	22	1155E	1210	1155U	N04	W60	.872	19325	18.0	15D	-N	3	C		.46				DE
MONT	22	1157	1205	1200	N07	W58	.859	19325	18.1	8	-N		C	1200	.21				D
CANR	22	1200E	1212D	1205	N07	W59	.867	19325	18.1	12D	-N		V	1205	.62	1.20			
GRP50415	22	1332	1353	1338	N05	W60	.873	19325	18.1	21	-8				.62				2 2 2 3
RAMY	22	1329	1353	1341	N05	W60	.873	19325	18.1	24	-N	4	C		.65				DE
RAMY	22	1329	1353	1331	N05	W60	.873	19325	18.1	24	-F	4	C		.28				DE
CATA	22	1335	1335D	1335	N05	W59	.864	19325	18.1		-8			1335	.58	1.15		(240)	
419 BOUL	22	1534	1713	1536D	N06	W56	.839	19325	18.4	99	1N		V	1536		2.90			2
	22	1543	1556	NO FLARE PATROL															
GRP50420	22	1734	1758	1746	N07	W62	.892	19325	18.1	24	-N				.70				3 3 2 3
BOUL	22	1730	1755	1743	N08	W62	.893	19325	18.1	25	1F		C	1743	1.07	2.26			
HUAN	22	1738	1751	1744	N08	W63	.900	19325	18.0	13	-N	1	C						
RAMY	22	1745E	1808D	1750	N05	W61	.881	19325	18.2	23D	-N	4	V		.33				DE
RAMY	22	1745E	1808D	1802	N05	W61	.881	19325	18.2	23D	-N	4	V		1.24				DE
GRP50421	22	1914	1934	1921	N08	W60	.877	12708	18.3	20	1F				1.59				3 3 3 3
PALE	22	1911	1936	1920	N09	W62	.894	12708	18.1	25	1F	2	C		2.26				F
BOUL	22	1912	1935	1920	N08	W59	.869	12708	18.4	23	-F		C	1920	.64	1.26			
RAMY	22	1918	1930	1922	N06	W60	.874	12708	18.3	12	1N	4	V		1.86				DE

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OBSERV-ATORY	OBSERVED UT				LOCATION						DURATION — MIN.	IMPORTANCE	OBS. COND.	OBS. TYPE	MEASUREMENTS					REMARKS
	DATE JAN	START	END	MAX. PHASE	APPROX. LAT.	APPROX. MER. DIST.	CENTRAL DISTANCE	HGMATH PLAGE REGION	CMP DAY						TIME — UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT. %	
GRP50422	22	1922	1935	1925	N15	W40	.701	12710	19.8		13	--F				.48				3 3 3 3
BOUL	22	1921	1936	1925	N15	W39	.690	12710	19.9		15	-F		C	1925	.21	.28			
PALE	22	1922	1934	1926	N16	W39	.695	12710	19.9		12	-F	2	C		.72				F
RAMY	22	1923	1934	1923U	N13	W42	.713	12710	19.7		11	-N	4	V		.50				F
GRP50423	22	2024	2032	2026	N08	W63	.900	19325	18.1		8	--F				.59				3 3 3 4
BOUL	22	2022	2031	2025	N07	W63	.899	19325	18.1		9	-F		C	2025	.54	1.18			
PALE	22	2024E	2034	2026	N09	W62	.894	19325	18.2		100	-N	2	C		.91				F
HUAN	22	2025	2030	2027	N07	W64	.906	19325	18.1		5	-F	1	C	2027	.31				
	22	2106	2117	NO FLARE PATROL																
424 PALE	22	2117E	2125	2118U	N08	W62	.893	19325	18.2		80	-N	2	V		.83				DE 3
426 PALE	22	2328E	2344D	2329U	S17	W50	.769	19326	19.2		160	--F	2	V		.26				F 2
427 PALE	22	2328E	2344D	2337U	S17	W50	.769	19326	19.2		160	--F	2	V		.93				F 2
429 PALE	23	0045E	0053	0049U	S14	W53	.797	19326	19.1		80	--F	2	C		.55				F 3
GRP50430	23	0055	0114	0102	S15	W53	.798	19326	19.1		19	--F				.43				2 2 2 3
PALE	23	0055	0115	0102	S14	W53	.797	19326	19.1		20	-F	2	C		.55				F
CRON	23	0102E	0113		S16	W53	.799	19326	19.1		110	-F		V		.31				
GRP50431	23	0109	0117	0111	N08	W65	.915	19325	18.2		8	--F				.43				2 2 2 3
PALE	23	0109	0114	0111	N08	W64	.908	19325	18.2		5	-F	2	C		.55				
CRON	23	0109E	0120		N07	W66	.920	19325	18.1		110	-F		V		.31				
GRP50435	23	1003	1037	1007	N09	W73	.962	12708	17.9		34	-N				.34				3 3 3 6
CANR	23	0959	1028	1005	N07	W69	.939	12708	18.2		29	-N		V		.41				
ATHN	23	1001	1018	1005	N07	W72	.956	12708	18.0		17	-N	3	C		.33				DE
ATHN	23	1001	1018	1010	N07	W72	.956	12708	18.0		17	-F	3	C		.83				DE
TEHR	23	1010	1016	1012	N12	W78	.983	12708	17.6		6	-F	3	C		.28				F
ATHN	23	1028	1037	1031	N07	W72	.956	12708	18.0		9	-F	3	C		.33				DE
436 PALE	23	2044	2102	2053U	N17	W55	.855	12710	19.7		18	-F	2	C		.45				F 3
438 MONT	24	1200	1203	1201	S15	W90	1.000	19314	17.8		3	--F		C	1201	.10				2
439 RAMY	24	1905	1912D		S15	W90	1.000	19314	18.0		70	-N	4	C						5
440 MEUD	25	1159	1210	1200	S17	W90	1.000	19326	18.7		11	1N		C	1200	1.03				2
	25	1348	1413	NO FLARE PATROL																
	25	1435	1455	NO FLARE PATROL																
	25	1458	1517	NO FLARE PATROL																
	25	1520	1527	NO FLARE PATROL																
	25	2028	2034	NO FLARE PATROL																
	25	2302	2318	NO FLARE PATROL																
GRP50441	26	1026	1040	1029	S17	W01	.199	12720	26.4		14	--F				.26				2 2 2 4
CANR	26	1025	1045	1028	S17	E00	.199	12720	26.4		20	-F		V		.41				
MONT	26	1026	1035	1029	S17	W01	.199	12720	26.4		9	-F		C	1029	.10				
GRP50442	26	1105	1121	1108	S17	W01	.199	12720	26.4		16	--F				.31				2 2 2 3
MONT	26	1104	1116	1106	S17	W01	.199	12720	26.4		12	-N		C	1106	.21				E
CANR	26	1106	1125	1109	S17	E00	.199	12720	26.5		19	-F		V		.41				
GRP50443	26	1616	1627	1619	S16	W05	.200	12720	26.3		11	--F				.21				2 2 2 3
BOUL	26	1615	1628	1618	S16	W04	.194	12720	26.4		13	-F		C	1618	.21	.21			
RAMY	26	1616	1626	1619	S16	W05	.200	12720	26.3		10	-F	3	C		.21				DE
	26	2303	2305	NO FLARE PATROL																
	27	1542	1613	NO FLARE PATROL																
	27	2327	2330	NO FLARE PATROL																
	28	1800	1812	NO FLARE PATROL																
	29	0615	0648	NO FLARE PATROL																
	29	0745	0746	NO FLARE PATROL																

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OBSERV-ATORY	OBSERVED UT				LOCATION					DURA-TION	IM-POR-TANCE	OBS.		MEASUREMENTS					REMARKS	
	DATE JAN	START	END	MAX. PHASE	APPROX. LAT.	APPROX. MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY	MIN.		COND.	TYPE	TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT. %		
	29	0835	0845	NO FLARE PATROL																
	29	0858	0854	NO FLARE PATROL																
	29	1231	1238	NO FLARE PATROL																
	29	1450	1451	NO FLARE PATROL																
	29	1511	1516	NO FLARE PATROL																
	29	1522	1531	NO FLARE PATROL																
	29	1544	1547	NO FLARE PATROL																
	29	1551	1558	NO FLARE PATROL																
	29	1602	1611	NO FLARE PATROL																
	29	1614	1631	NO FLARE PATROL																
	30	1531	1541	NO FLARE PATROL																
	30	1544	1550	NO FLARE PATROL																
	30	1645	1733	NO FLARE PATROL																
	30	1919	1952	NO FLARE PATROL																
	31	1130	1138	NO FLARE PATROL																
	31	1420	1427	NO FLARE PATROL																
445 HUAN	31	1652	1708	1658	S05	E48	.741	19329	4.3	16	--F	2	C	1658	.31	.46			E	2
446 PALE	31	2133	21410	2138U	S05	E45	.705	12723	4.3	80	1F	2	C		1.44				F	2

Note:
A line of explanation has been added before each flare event having more than one maxima. The total number of stations reporting some part of the event is given. The number of stations observing at the time of the principal maximum but not reporting the event is given in the second statement. Care should be exercised in utilizing the numbers in the remarks column. The first number is the number of stations reporting the individual maximum, and not the total number of stations reporting some part of the flare event. The last number is the number of stations reporting at the time of the individual maximum and not necessarily the total number of stations observing during the flare event. GRP numbers may appear several times in order to indicate secondary maxima. An asterisk beside an importance indicates a secondary maximum. The word "GRP" has also been omitted to aid in pointing to this condition.
When it is impossible to determine the time of Maximum Phase from the individual reports the time of Area Measurements is used. This time appears in parentheses. For Flares reported by only one station the last 3 digits of the group number appear to the left of the station code.

In the importance column "--" signifies the subflare has been confirmed by the NOAA grouping program but is not included in the I.A.U. Quarterly Bulletin on Solar Activity. These subflares are also not included in the Flare Index below.

DAILY FLARE INDICES

Date	Flare Index	HR OBS	Date	Flare Index	HR OBS	Date	Flare Index	HR OBS
740101	0.00	13.0	740112	27.47	23.8	740122	42.86	23.6
740102	5.43	23.1	740113	14.69	24.0	740123	1.68	24.0
740103	0.00	23.7	740114	1.40	19.2	740124	0.84	24.0
740104	0.00	23.9	740115	15.30	21.4	740125	5.74	22.5
740105	0.00	19.7	740116	5.60	23.9	740126	0.00	24.0
740106	1.73	21.2	740117	0.00	23.3	740127	0.00	23.4
740107	0.00	20.7	740118	5.84	21.4	740128	0.00	23.8
740108	0.00	20.5	740119	5.45	22.5	740129	0.00	22.2
740110	11.18	23.6	740120	0.00	24.0	740130	0.00	22.4
740111	18.26	23.6	740121	2.03	23.5	740131	10.94	23.8

When no Flare Index is given, it is 0 for that day.

Hα SOLAR FLARES
Unconfirmed
JANUARY 1974

OBSERV-ATORY	OBSERVED UT				LOCATION						DURA-TION	IM-POR-TANCE	OBS.		MEASUREMENTS					REMARKS
	DATE JAN	START	END	MAX. PHASE	APPROX. LAT.	MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY		MIN.		COND.	TYPE	TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT. %	
320 MANI	02	0528E	0530D	0525	S15	E08	.246	12684	2.8		100	-N	2		0525	.10	.11			H 3
321 ABST	02	0752E	0818D	0758	S15	E06	.230	12684	2.8		260	-F		P	0758	.90	.90			OJ 4
322 CANR	02	1029E	1040	1029	N13	W08	.309	12683	1.8		110	-F		V	1029	.21	.20			6
325 ABST	03	0715	0750	0722	S14	W11	.264	12684	2.5		35	-F		P	0722	.90	.90			D 4
326 ABST	03	0744	0750	0746	S15	W08	.245	12684	2.7		6	-F		C	0746	.90	.90			D 5
330 ABST	05	0646	0655	0648	S14	W36	.602	12684	2.6		9	-F		C	0648	.90	1.10			D 5
334 CATA	08	1220E	1220D	1220	S06	E78	.977	12694	14.4			1F			1220	.58			(135)	4
338 CROM	10	0311E	0318		S18	E90	1.000	19313	16.9		70	-N		V						6
339 CANR	10	0912	0925	0915	N09	W10	.282	19311	9.6		13	-F		V	0915	.62	.60			3
340 CANR	10	0930	0934D	0934	S17	E88	.999	19313	17.0		40	-N		V	0934	.41				3
344 MCMA	10	1455E	1457D		N12	E48	.770	12700	14.2		20	-N		C	1455	.52	.80			E 4
345 BOUL	10	1957E	2023	2010D	S13	E51	.779	19312	14.7		260	-F		C	2010	.75	1.20			4
346 MITK	11	0102	0116	0103	S08	E45	.706	19312	14.4		14	-N		C	0103	.52	.70			E 5
351 MONT	12	0918	0933	0923	S19	E80	.982	19315	18.4		15	-F		C	0923	.10				7
359 CANR	13	1625	1634	1630	S16	E62	.882	19315	18.3		9	-F		V	1630	.41	.80			3
361 VORO	14	0203	0212	0204	S10	E84	.993	19317	20.4		9	1F		C	0204	.93	4.47		59	EJG 5
367 MANI	15	0212	0218	0214	N04	W78	.980	19311	9.2		6	-F	2		0214	.31	.78			4
368 MANI	15	0239	0252	0243	N04	W78	.980	19311	9.3		13	-N	2		0243	.41	1.04			4
369 MANI	15	0619E	0632	0621U	N07	W84	.996	19311	9.0		130	-N	2		0621	.52	1.47			4
GRP50373	15	0828	0900	0840	N07	W86	.998	12686	8.9		32	-N				.52				1 1 1 6
CANR	15	0828E	0900D	0840	N07	W88	1.000	12686	8.8		320	-N		V	0840	.52	1.90			
CANR	15	0857	0900D	0859	N07	W85	.997	12686	9.0		30	-N		V	0859	.31	1.10			
374 CANR	15	0922	0932	0924	N10	W20	.417	19318	13.9		10	-F		V	0924	.31	.40			5
377 CANR	15	1348	1355	1347	N10	W11	.312	12700	14.7		15	-F		V	1347	.41	.40			3
380 TEHR	16	0932	1005	0942	N13	W42	.711	19318	13.2		33	-F	2	C		.91				F 6
381 MONT	16	1037	1123	1053	S13	E51	.777	19321	20.3		46	-N		C	1053	.21				D 6
382 MONT	16	1049	1054	1052	S13	E49	.755	19321	20.1		5	-N		C	1052	.10				D 6
385 MANI	17	0344	0351D	0349	N12	W50	.793	19318	13.4		70	-F	2		0349	.31	.50			5
386 ATHN	17	1030	1041	1033	S19	W07	.272	19313	16.9		11	-F	3	C		.33				DE 7
388 ARCE	18	1100E	1115D		S13	W47	.732	19312	14.9		150	-N		C	1100	.40	.60			T 4
396 VORO	20	0004	0014	0007	N03	W23	.412	19325	18.3		10	-B		C	0007	.28	.30		66	EJ 4
397 MANI	20	0330	0400D	0335	N07	W26	.479	19325	18.2		300	-N	2		0335	.41	.47			F 5
398 MANI	20	0647E	0717	0658	N06	W27	.487	19325	18.3		300	-N	2		0658	.52	.59			F 5
400 WEND	20	1332E	1420		N06	W29	.515	12708	18.4		480	1N		V		5.16				B 3
403 MONT	21	0945	0958	0949	N07	W41	.678	19325	18.3		13	-F		C	0949	.10				5
409 CANR	22	0831E	0900D	0834	S16	W44	.701	19326	19.1		290	-N		V	0834	.52	.70			5
411 ATHN	22	0919E	0930D	0919U	N07	W56	.841	19325	18.2		110	-N	1	V		.66				DE 6
412 MONT	22	1053	1100	1054	S16	W44	.701	19326	19.2		7	-N		C	1054	.10				D 5
413 CANR	22	1100	1116	1106	N07	W57	.850	19325	18.2		16	-F		V	1106	.62	1.10			6
416 CANR	22	1450E	1458D	1452	N26	W40	.763	12710	19.6		80	-N		V	1452	.31	.50			4
417 CANR	22	1450E	1505	1453	N07	W60	.876	19325	18.1		150	-F		V	1453	.62	1.20			4

Hα SOLAR FLARES
Unconfirmed
JANUARY 1974

OBSERV-ATORY	OBSERVED UT				LOCATION					DURA-TION	IM-POR-TANCE	OBS.		MEASUREMENTS					REMARKS	
	DATE JAN	START	END	MAX. PHASE	APPROX. LAT.	APPROX. MER. DIST.	CENTRAL DISTANCE	MCMATH PLAGE REGION	CMP DAY	MIN.		COND.	TYPE	TIME UT	MEAS. AREA Sq. Deg.	CORR. AREA Sq. Deg.	MAX. WIDTH Hα	MAX. INT. %		
418 CANR	22	1450E	1457	1453	S16	W50	.768	19315	18.9	70	-N		V	1453	.31	.60				4
425 PALE	22	2228E	2246	2230U	S16	W50	.768	19326	19.2	180	-F	2	V		.31				F	3
428 PALE	22	2340E	2344C	2341U	N08	W62	.893	19325	18.3	40	-F	2	V		.46				DE	3
432 PALE	23	0144E	0158	0146	N08	W64	.908	19325	18.3	140	-F	2	V		.41				DE	3
433 PALE	23	0207	0219	0209	S17	W55	.819	19326	19.0	12	-F	2	V		.21				DE	4
434 MITK	23	0518	0531	0522	N06	W71	.950	19325	17.9	13	-N		C	0522	.72				D	4
437 MITK	24	0132E	0156	0136	S16	W86	.998	12714	17.5	240	1N		C	0136	1.13				H	4
444 ABST	31	0756	0856	0802	N07	E74	.966	12725	5.9	60	-F		C	0802	.72				DGK	5

A = Eruptive prominence whose base is less than 90° from central meridian.
B = Probably the end of a more important flare.
C = Invisible 10 minutes before.
D = Brilliant point.
E = Two or more brilliant points.
F = Several eruptive centers.
G = No visible spots in the neighborhood.
H = Flare accompanied by a high speed dark filament.
I = Active region very extended.
J = Distinct variations of plage intensity before or after the flare.
K = Several intensity maxima.
L = Existing filaments show signs of sudden activity.
M = White-light flare.
N = Continuous spectrum shows effects of polarization.
O = Observations have been made in the calcium II lines H and K.
P = Flare shows helium D_3 in emission.
Q = Flare shows the Balmer continuum in emission.
R = Marked assymetry in Hα line suggests ejection of high velocity material.
S = Brightness follows disappearance of filament (same position).
T = Region active all day.
U = Two bright branches, parallel (||) or converging (Y).
V = Occurrence of an explosive phase: important and abrupt expansion in about a minute with or without important intensity increase.
W = Great increase in area after time of maximum intensity.
X = Unusually wide Hα line.
Y = System of loop-type prominences.
Z = Major sunspot umbra covered by flare.

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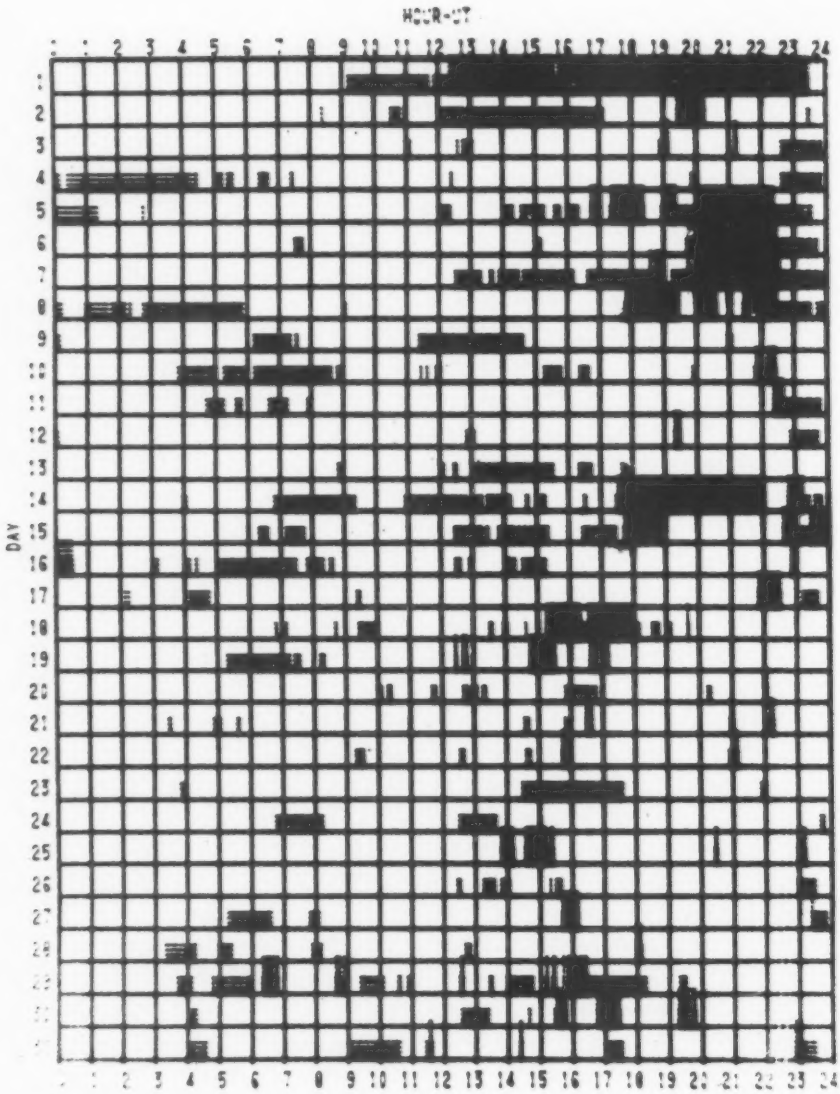
Jan 74

INTERVALS OF NO FLARE PATROL OBSERVATION

FOR PRECEDING SOLAR FLARE TABLE

JANUARY 1974

HOUR-UT



Observatories included in total patrol:

Abastumani	Carnarvon	Huancayo	Manila	Monte Mario	Tehran
Athenes	Catania	Kharkov	McMath-Hulbert	Palehua	Upice
Arcetri	Culgoora	Kiev	Meudon	Ramey	Voroshilov
Boulder	Gran Canaria	Kodaikanal	Mitaka	Tachkent	Wendelstein
Bucharest	Herstmonceux	Locarno			

Times of no flare patrol are shown by the shaded area for each day divided into times of no cinematographic patrol (bottom half of day) and times of neither visual nor cinematographic patrol (top half of day).

SOLAR RADIO EMISSION
OUTSTANDING OCCURRENCES

JANUARY 1974

JAN. 1974	FREQUENCY	STATION	TYPE	STARTING TIME	TIME OF MAXIMUM	DURATION	FLUX DENSITY 10^{-22} Wm^{-2} Hz^{-1}		INT	REMARKS
				UT	UT	MINUTES	PEAK	MEAN		
1	260	ONDR	45	1008.5	1021	12	20.0			
	260	ONDR	5	1039	1039	.5	25.0			
	260	ONDR	45	1109	1109	4	55.0			
2	2695	CRON	3	0807	0809	4	4.0	1.0		
	4995	CRON	3	0808	0810.5	4.5	7.0	2.0		
	260	ONDR	45	0829	0830	4	180.0			
	237	TRST	42	0829.1	0830.4	3.6	940.0			
	234	POTS	40	0829.8	0830	3 U	900.0	35.0		
	113	POTS	41	0829.9	0832.3	2.9U	700.0	20.0		
	408	TRST	42	0921.1	0922.2	1.5	220.0			
	260	ONDR	45	0921	0922.5	3	30.0			
	237	TRST	41	0922	0922.2	.3	38.0			
	260	ONDR	45	0942	0946.5	6	30.0			
	408	TRST	41	0945.5	0946.6	1.4	140.0			
	237	TRST	45	0946.6	0946.6	.1	41.0	12.0		
	2800	OTTA	24	1535	1615	40	1.1	0.5		
	2800	OTTA	24	1615		360 D	1.1			
3	1420	CRON	3	0027	0028.5	3.5	3.0	1.0		
	18	MCMA	6	1718	1720	3			1	
4	18	MCMA	41	1552	1553	4			1	
	2700	PENN	8	1620.7	1620.8	.3	10.9			
	2695	CANR	3	1732.5	1734	2.5	4.0	1.0		
	1420	CANR	3	1732.5	1734	2.5	2.0	1.0		
5	2695	CANR	3	1717.5	1719.5	3	3.0	1.0		
	4995	CANR	3	1725.5	1728.5	4	9.0	3.0		
	2695	CANR	3	1726.5	1729	4	4.0	1.0		
	1420	CANR	3	1726.5	1729	4	2.0	1.0		
6	550	KIEV	41	1139.5	1139.6	1.5	46.0			
7	2800	OTTA	27	1715		60	.8	0.7		
	2800	OTTA	24	1715	1725	10	.8	0.4		
	2695	CANR	3	1721	1722.5	2.5	4.0	1.0		
	2800	OTTA	24	1725		45	.8			
	2800	OTTA	26	1810		5	.8	0.4		
8	9240	ARCE	1	0847.7	0849.2	6				
	2830	ARCE	1	0847.6	0849.1	2.6				
	29	UPIC	45	1406	1406.5	2				
	18	MCMA	6	1826	1827	1			1	
9	2695	PENT	20	2038	2058	70	.8	0.5		
	2695	BOUL	3	2230.5	2231.5	2	4.0	1.0		
10	2695	CANR	3	1108	1109.5	2.5	3.0	1.0		
	2800	OTTA	24	1420	1427	7	1.6	0.7		
	2800	OTTA	24	1427		56	1.6			
	2800	OTTA	24	1523	1536	13	1.2	0.6		
	2800	OTTA	24	1536		390 D	1.2			
	2695	CANR	3	1636.5	1638	2	3.0	1.0		
	4995	CANR	3	1639	1641	2.5	6.0	2.0		
	1420	CANR	3	1640	1641	1.5	3.0	1.0		
	2700	PENN	41	1850.4	1852.4	2.4	580.0			
	2700	PENN	8	1911.1	1911.5	.6	36.0			
	2700	PENN	8	1912.4	1912.5	.4	15.6			
11	260	ONDR	44	0830	1212.5	340	75.0			
	100	GORK	44	0831		209 D		15.0		
	200	GORK	44	0845		75		5.0		
	245	SGMR	44	1217 E	1430.5	549 D	19.0			
	237	TRST	45	0926.3	0926.4	.2	35.0	8.0		
	9240	ARCE	40	0947	0954.7	14.5				
	550	KIEV	6	1208.9	1209	1	134.0			
	245	SGMR	6	1518.5	1519.5	2.2	43.5	9.0		
	410	SGMR	6	1520.1	1520.3	.6	15.2	6.0		
	2800	OTTA	20	1533	1540	40	1.2	0.6		
	2695	CANR	8	1633.5	1634.5	1.5	3.0	1.0		
	4995	CANR	3	1637.5	1638.5	2.5	5.0	2.0		
	1420	CANR	3	1638	1639	2	1.0			
	2800	OTTA	21	1700 E	1745	90 D	1.2			
	2800	OTTA	1	1720	1720.3	2	1.6	0.6		
	2800	OTTA	20	1830	1900	120	1.2	0.6		
	4995	BOUL	3	1844	1845	2.5	3.0	1.0		
	2695	BOUL	3	1845	1846	2.5	4.0	1.0		
12	208	VORO	6	0051	0051	2	110.0			
	200	GORK	41	0652.5	0652.6	3	20.0			
	200	GORK		0653.3			20.0			
	100	GORK	41	0653.2	0653.7	4.1	70.0			
	100	GORK		0653.2	0654.3		70.0D			
	200	GORK		0654.4			25.0			
	200	GORK	6	0723.3	0723.5	.5	170.0	60.0		
	100	GORK	6	0723.4	0723.8	1.5	60.0D			
	260	ONDR	41	0810	1108.5	400	55.0			
	1500	BERL	2	1014.7	1014.8	1.1	2.3	1.0		
	536	ONDR	45	1014.5	1017	3.5	40.0			

SOLAR RADIO EMISSION
OUTSTANDING OCCURRENCES

JANUARY 1974

JAN 1974	FREQUENCY STATION	TYPE	STARTING TIME UT	TIME OF MAXIMUM UT	DURATION MINUTES	FLUX DENSITY 10^{-22} Wm^{-2} Hz^{-1} PEAK	FLUX DENSITY MEAN	INT	REMARKS
12	510 POTS	45	1014.5	1014.8	.5U	15.0	1.0		
	408 TRST	41	1014.2	1014.5	2.8	70.0			
	260 ONDR	45	1014	1033	22	235.0D			
	237 TRST	42	1014.2	1015.6	4.8	160.0			
	100 GORK	41	1014.8	1015.8	32	60.0D			
	100 GORK		1014.8	1030		70.0D			
	100 GORK		1014.8	1033.6		4000.0			
	100 GORK		1014.8	1038.8		200.0			
	950 GORK	40	1015	1015.2	1.6	3.5			
	930 BORD	45	1015	1015.2	2	7.0	2.0		
	808 ONDR	5	1015	1015	.5	60.0			
	234 POTS	45	1015.5	1015.6	.2	100.0	20.0		
	200 GORK	41	1015	1015.7	25	200.0			
	200 GORK		1015	1018.5		40.0			
	200 GORK		1015	1030.9		150.0			
	200 GORK		1015	1033.2		1000.0			
	113 POTS	45	1015.5	1015.6	.6	1400.0	200.0		
	23 POTS	45	1015.6	1015.6	1.4	40000.0	8000.0		
	29 UPIC	45	1016	1016.5	1.5				
	930 BORD	5	1026	1031.3	11	16.0	3.0		
	3000 BERL	4	1027.5	1030.2	4.5	64.0	28.0		
	4995 CANR	8	1028.5	1030	3.5	79.0	31.0		
	2695 CANR	8	1028	1031.5	3.5	65.0	20.0		
	1500 BERL	4	1028.5	1030.6	4.5	14.0	5.0		
	1415 ATHN	4	1028.7	1030.8	3	12.4	7.3		
	10500 BERN	46	1029.1	1030.8	2	126.0			
	9500 BERL	4	1029	1030	4.5	106.0	46.0		
	8800 ATHN	4	1029.8	1030.8	3	202.2	45.1		
	4995 ATHN	4	1029.2	1030.8	3	108.9	36.5		
	2830 ARCE	4	1029.3	1030.9	3.6				
	2695 ATHN	4	1029.1	1030.8	3	60.3	31.0		
	1420 CANR	8	1029.5	1031.5	3	11.0	3.0		
	550 KIEV	6	1029	1031.5	4.2	38.0			
	510 POTS	45	1029.5	1030.9	25.1	7.0	2.0		
	237 TRST	42	1029.9	1031.4	4.6	730.0			
	237 TRST		1029.9	1033.3		1300.0			
	113 POTS	40	1029.8	1033.3	11	700.0	50.0		
	9240 ARCE	4	1030.1	1031	4.2				
	9100 GORK	4	1030	1030.8	2.8	137.0	30.0		
	950 GORK	3	1030	1031.3	17.2	8.5			
	808 ONDR	45	1030	1031	6	55.0			
	650 GORK	3	1030	1031.6	2.8	8.3	4.0		
	536 ONDR	45	1030	1031.5	4.5	45.0			
	408 TRST	45	1030.1	1031.3	2.6	14.0	4.0		
	234 POTS	41	1030	1033.3	10	950.0	35.0		
	29 UPIC	45	1030.5	1032	24				
	23 POTS	45	1030.2	1033.6	4.1	100000.0U	2000.0D		
	950 GORK	29	1032.4	1032.4	14.7	2.0			
	650 GORK	29	1032.8	1032.8	6.2	2.0	1.0		
	408 TRST	45	1108.5	1108.8	.4D	30.0			
	237 TRST	41	1108.6	1108.7	.3	200.0			
	536 ONDR	5	1109	1109	.5	60.0			
	536 ONDR	5	1126	1126	.5	40.0			
	4995 CANR	8	1305.5	1306.5	2	9.0	3.0		
	2695 CANR	8	1305.5	1306.5	2.5	4.0	1.0		
	2695 CANR	8	1320.5	1321.5	2	5.0	1.0		
	4995 CANR	8	1321	1322	1.5	7.0	2.0		
	1420 CANR	8	1321	1321.5	1.5	3.0	1.0		
	6100 KISV	48	1329	1338	9	20.0D			
	4995 CANR	3	1338.5	1340	2.5	6.0	2.0		
	2695 CANR	3	1338.5	1339.5	2	3.0	1.0		
	1420 CANR	3	1338	1339	1.5	2.0			
	18 MCMA	42	1541	1544	9			1	
	2800 OTTA	21	1720	1813	90	1.8	0.9		
	245 SGMR	6	1819.7	1819.8	1.3	70.0	21.0		
	2800 OTTA	2	1837	1838	2.5	2.6	1.0		
	2695 BOUL	3	1837	1838	2	3.0	1.0		
	4995 BOUL	8	2051	2052	1.5	9.0	4.0		
	10700 PENN	1	2052.8	2053.3	5	5.6	3.6		
	8800 SGMR	1	2052.5	2052.9	.7	4.6	.9		
	4995 SGMR	1	2052.4	2052.9	1.1	7.0	1.4		
	2800 OTTA	1	2052.5	2053	1.5	6.4	3.2		
	2700 PENN	1	2052.6	2053.1	1.8	7.8	3.0		
	2695 BOUL	8	2052	2052.5	2	9.0	4.0		
	2695 SGMR	1	2052.3	2052.9	1	7.4	1.5		
	1420 BOUL	8	2052	2053	2	3.0	1.0		
	1415 SGMR	1	2052.6	2052.9	1.1	2.4	.5		
	960 PENN	1	2052.4	2053.2	3	1.7	0.3		
	606 SGMR	1	2052.8	2052.9	.3	3.7	.7		
	245 SGMR	6	2052.3	2052.8	1.4	50.0	10.0		
	2695 PENT	31	2054	2057	20	- .9	-0.5		
	18 MCMA	6	2054	2056	4			2	
	18 MCMA	6	2303	2304	3			1	
13	4995 CRON	3	0531.5	0533	2.5	7.0	2.0		
	2695 CRON	3	0531.5	0532.5	4	11.0	2.0		
	1420 CRON	3	0532	0533.5	3	3.0	1.0		
	9400 TYKW	1	0533	0534	3	4.0	2.0		
	3750 TYKW	1	0533	0533.5	2.5	10.0	2.0		
	2000 TYKW	1	0533	0533.6	2	4.0	1.0		

SOLAR RADIO EMISSION
OUTSTANDING OCCURRENCES

JANUARY 1974

JAN 1974	FREQUENCY	STATION	TYPE	STARTING TIME UT	TIME OF MAXIMUM UT	DURATION MINUTES	FLUX DENSITY 10^{-22} Wm^{-2} Hz^{-1} PEAK	FLUX DENSITY 10^{-22} Wm^{-2} Hz^{-1} MEAN	INT	REMARKS
	1000	TYKW	1	0533	0533.6	2	1.3	0.3U		
	200	HIRA	45	0533.5	0533.7U	1	180.0D	120.0D		
	100	HIRA	45	0533.5	0534	1.5	1000.0D	400.0D		
	8800	ATHN	20	0805.6	0814.5	34.7	5.8	2.2		
	2695	ATHN	20	0805.6	0835.7	36.4	3.2	1.3		
	1415	ATHN	20	0805.5	0830.5	34.5	3.6	1.3		
	4995	ATHN	20	0806.8	0836.4	33.8	3.8	1.3		
	260	ONDR	41	0810	1248	360	30.0			
	29	UPIC	45	1122.5	1124	2.5				
	113	POTS	5	1123.3	1123.3	.1	200.0	70.0		
	23	POTS	45	1123.8	1124.3	1.1	12000.0	2000.0		
	2800	OTTA	23	1557	1614	65	2.2	1.1		
	245	SGMR	6	1619.5	1620.5	1.9	85.6	34.3		3
	2800	OTTA	8	1620.3	1620.5	.5	1.0	0.5		
	2800	OTTA	22	1845	1915	55	1.2	0.6		
	2695	PENT	20	1950	2040	92	1.8	1.0		
14	4995	CRON	8	0329	0332	5.5	13.0	4.0		
	3750	TYKW	3	0331.5	0332.9	3.5	20.0	5.0		
	2695	CRON	8	0331	0333	4.5	16.0	4.0		
	9400	TYKW	3	0332	0332.9	2	28.0	8.0		
	8800	MANI	3	0332.6	0333	1.2	37.1	5.9		
	2695	MANI	3	0332.3	0333	3.2	11.8	4.2		
	2000	TYKW	1	0332	0333	2	10.0	4.0		
	1420	CRON	8	0332	0333	3	20.0	7.0		
	1000	TYKW	45	0332	0333	2	60.0	12.0		
	9400	TYKW	29	0334		55	2.0	1.0		
	2000	TYKW	29	0334		15	1.2	0.6		
	3750	TYKW	29	0335		80	1.0	0.5		
	200	GORK	44	0623 E		100		5.0		
	100	GORK	44	0624 E		320		5.0		
	260	ONDR	41	0910	1104	310	20.0			
	29	UPIC	45	0933	0933.5	1				
	18	MCMA	41	1446	1448	5			2	
	18	MCMA	6	1710	1712	2			1	
	2695	PENT	26	1845		40	1.6	0.8		
	2800	OTTA	26	1905		20	1.8	0.9		
15	100	GORK	44	0606 E		36		5.0		
	1420	CRON	3	0630	0633	6.5	3.0	1.0		
	260	ONDR	45	0750	0822.5	67	20.0			
	113	POTS	40	0754.7	0759.3	6.3U	175.0	12.0		
	100	GORK	6	0754.9	0755.3	2.6	50.0D			
	29	UPIC	45	0755	0756	6.5				
	113	POTS	45	0855.2	0855.3	.8U	100.0	10.0		
	100	GORK	6	0855	0855.6	1.1	50.0			
	4995	CANR	3	0951	0952	2	8.0	3.0		
	2695	CANR	3	0951.5	0953	2.5	3.0	1.0		
	113	POTS	5	1016.7	1016.8	.3U	100.0	30.0		
	29	UPIC	45	1017.5	1018	1.5				
	23	POTS	5	1017	1017.6	.3U	3000.0	1000.0		
	100	GORK	6	1040.9	1041.3	1	20.0			
	23	POTS	41	1040.7	1041.2	5.8U	5000.0	300.0		
	29	UPIC	45	1041.5	1042	9				
	113	POTS	45	1045.7	1045.8	1 U	190.0	2.0		
	3000	BERL	46	1047.5	1054.5	53	41.0	9.2		
	2830	ARCE	23	1047.6	1108.3	79				
	2695	CANR	45	1047	1055.5	140	41.0	6.0		
	3100	CRIM	3	1049	1054	130	25.0	8.0		
	2695	ATHN	22	1049.7	1054.8	96.6	31.0	13.8		
	1500	BERL	46	1049.5	1117.9	46	16.0	3.5		
	930	BORD	40	1049	1055.3	54	43.0	5.0		
	4995	CANR	45	1050.5	1054.5	100.5	127.0	6.0		
	1420	CANR	45	1050.5	1118	45.5	13.0	4.0		
	1415	ATHN	22	1050.6	1055.3	89.2	13.4	6.3		
	950	GORK	23	1050.2	1118.3	28	10.0			
	808	ONDR	45	1050	1055	40	85.0			
	8800	ATHN	22	1051.7	1108.2	100	8.8	4.4		
	4995	ATHN	23	1051.8	1108.4	99.2	11.4	5.1		
	9240	ARCE	21	1052.6	1110.5	74				
	510	POTS	45	1052	1119	36	28.0	3.0		
	234	POTS	45	1052	1101	56	200.0	20.0		
	9500	BERL	22	1053	1101.7	30	8.0			
	4995	CRON	8	1053.5	1054	1.5	153.0	56.0		
	2830	ARCE	4	1053.7	1054.7	3				
	2695	CRON	8	1053.5	1054	1.5	33.0	14.0		
	650	GORK	23	1053	1100.9	19	13.0			
	408	TRST	27	1053.8	1100.8	43	47.0			
	408	TRST		1053.8	1121.1		79.0			
	4995	ATHN	4	1054.3	1054.4	.8	206.1	19.1		
	950	GORK	3	1054.6	1055.3	1.6	15.0			
	650	GORK	4	1054.7	1055.8	1.9	21.0			
	536	ONDR	45	1055	1115.5	43	75.0			
	113	POTS	45	1055	1056	54	600.0	35.0		
	260	ONDR	45	1056	1101	33.5	145.0			
	237	TRST	27	1056.4	1056.8	45	190.0			
	237	TRST		1056.4	1100.9		340.0			
	237	TRST		1056.4	1118.1		150.0			
	237	TRST		1056.4	1121		150.0			
	200	GORK	41	1056.7	1056.9	8.7	500.0			

SOLAR RADIO EMISSION
OUTSTANDING OCCURRENCES

JANUARY 1974

JAN 1974	FREQUENCY STATION	TYPE	STARTING TIME UT	TIME OF MAXIMUM UT	DURATION MINUTES	FLUX DENSITY 10^{-22} Wm^{-2} Hz^{-1} PEAK	FLUX DENSITY 10^{-22} Wm^{-2} Hz^{-1} MEAN	INT	REMARKS
	200 GORK		1056.7	1101		350.0			
	100 GORK	48	1056.4	1120.2	34.7	400.0			
	100 GORK	49	1056.4	1058.1	2.7	300.0			
	100 GORK	48	1059.2	1120.2	32	400.0			
	23 POTS	45	1100	1108.5	48	1000.0	200.0		
	29 UPIC	45	1101.5	1102.5	21.5				
	3100 CRIM	29	1108 E	1108		20.0	7.0		
	650 GORK	2	1112.8	1118.7	17	2 15.4			
	200 GORK	24	1112	1121.2	16.5	100.0			
	9240 ARCE	40	1114.9	1121.9	11.5				
	260 ONDR	41	1130	1405	160	30.0			
	245 SGMR	44	1216 E	1848.6	554 D	75.0			
	6100 KISV	45	1349	1434	45	43.0D			
	208 VORO	44	2300	2325	60	14.0	12.0		
16	100 HIRA	45	0035	0035.5	1	120.0	40.0		
	100 HIRA	45	0603	0603.5	1.5	170.0	30.0		
	2695 CRON	3	0629	0631.5	3.5	6.0	2.0		
	100 HIRA	45	0636.5	0640.2	5	120.0	20.0		
	200 GORK	44	0700		120		5.0		
	260 ONDR	41	0750	1039	380	25.0			
	245 SGMR	44	1215 E	1322	556 D	94.3			
	237 TRST	45	0740.5	0740.6	.6	270.0	54.0		
	930 BORD	45	0927	0927.5	1	7.0	2.0		
	2800 OTTA	27	1519		43	1.0	0.7		
	2800 OTTA	24	1519	1520	1	1.0	0.5		
	2800 OTTA	24	1520		18	1.0			
	8800 SGMR	3	1532.3	1532.4	.2	14.2	4.3		
	4995 SGMR	3	1532.3	1532.4	.2	11.5	3.5		
	2695 SGMR	3	1532.3	1532.4	.2	25.5	7.7		
	1415 SGMR	1	1532.2	1532.4	.3	7.1	2.1		
	2800 OTTA	26	1538		24	1.0	0.5		
	2695 SGMR	1	1705	1705.2	.4	4.1	1.2		
	1415 SGMR	1	1705	1705.2	.4	3.3	1.0		
	8800 SGMR	2	1715.8	1716.9	1.6	7.0	2.1		
	4995 SGMR	4	1715.6	1716.8	1.3	14.3	4.3		
	2695 SGMR	2	1715.5	1715.8	1.8	9.9	3.0		
	1415 SGMR	2	1715.7	1716.6	1.3	3.2	1.0		
	960 PENN	8	1850	1850.1	.2	4.5			
	960 PENN	45	1924.2	1925.2	3.6	130.0	7.4		
	2700 PENN	45	1925	1925.1	.6	29.4	7.5		
	960 PENN	1	1932.7	0933.4	2.2	8.1	1.1		
	960 PENN	45	1944.9	1945.2	5.2	44.4	1.7		
17	29 UPIC	5	1042	1042	.5				
	18 MCMA	6	1304	1306	5			1	
	9240 ARCE	1	1306.7	1306.9	1				
	2830 ARCE	1	1306.2	1306.9	2				
18	2800 OTTA	20	1830	2000	210 D	3.4			
19	2695 ATHN	3	0615.5	0616.1	1	14.7	6.5		
	260 ONDR	45	1211	1217	9	15.0			
	245 SGMR	6	1720.8	1721.8	1.6	30.7	6.1		
	410 SGMR	6	1721.3	1721.7	1.1	4.3	.9		
	1420 CANR	3	1730	1730.5	2.5	5.0	2.0		
	2695 CANR	3	1731	1701.5	2	5.0	2.0		
20	200 HIRA	45	0330	0330.4	.6	45.0	20.0		
	200 HIRA	45	0638	0638.2	.5	90.0	30.0		
	2800 OTTA	20	1836	1837	17	1.4	0.6		
21	2800 OTTA	20	1838	1845	40	.8	0.4		
	2800 OTTA	40	2048	2055	8	3.0			
	9400 HUAN	20	2051.2	2057.2	16.4	10.5	4.6		
	1420 BOUL	8	2054	2054.5	1.5	3.0	1.0		
	2695 BOUL	3	2153.5	2154.5	3	4.0	1.0		
	2695 BOUL	8	2234	2234.5	1.5	6.0	2.0		
	208 VORO	6	2337	2337	2	120.0			
22	260 ONDR	5	1156	1156.5	3.5	15.0			
	2800 OTTA	20	1520	1630	135	2.6	1.3		
	2800 OTTA	27	1825		140	1.6	1.3		
	2800 OTTA	24	1825	1842	17	1.6	0.8		
	2800 OTTA	24	1842		90	1.6			
	2800 OTTA	26	2012		33	1.6	0.9		
	2695 PENT	20	2102	2122	50	.8	0.4		
	200 HIRA	45	2336.5	2336.9	1	180.0	20.0		
23	9240 ARCE	1	1053.7	1054.2	1.4				
	2830 ARCE	1	1053.6	1054	1.3				
	245 SGMR	6	1733.2	1733.4	.4	8.8	1.5		
	18 MCMA	6	1734	1735	2			1	
	2800 OTTA	27	1800		180	1.8	1.4		
	2800 OTTA	24	1800	1840	40	1.8	0.9		
	2800 OTTA	24	1840		105	1.8			
	1415 SGMR	4	1943.2	1943.7	1	14.9	4.5		
	606 SGMR	4	1943	1943.4	1.2	38.2	11.5		
	245 SGMR	6	1943.1	1943.8	2.4	3.4	1.0		
	2800 OTTA	26	2025		35	1.8	0.9		

SOLAR RADIO EMISSION
OUTSTANDING OCCURRENCES

JANUARY 1974

JAN. 1974	FREQUENCY STATION	TYPE	STARTING TIME UT	TIME OF MAXIMUM UT	DURATION MINUTES	FLUX DENSITY 10^{-22} Wm^{-2} Hz^{-1} PEAK	FLUX DENSITY MEAN	INT	REMARKS
24	260 ONDR	5	0923	0923	.5	65.0			
	930 BORD	41	0945	0945.7	1	9.0	2.0		
25	550 KIEV	41	0758.2	0759	2	43.0			
26	930 BORD	5	1035	1036	1	9.0	2.0		
	550 KIEV	27	1050	1107	35	32.0			
	808 ONDR	45	1100	1107	12	45.0			
	536 ONDR	45	1100	1106.5	12	35.0			
	408 TRST	41	1104.8	1105.4	6.4	8.0			
	930 BORD	45	1105	1107.5	3	9.0	2.0		
	237 TRST	41	1105	1105.5	2	85.0			
	207 IZMI	6	1105.2	1105.2	.8	200.0	10.0		
27	200 HIRA	45	0227.7	0228.2	1	65.0	30.0		
	18 MCMA	6	2146	2146	1			1	
28	536 ONDR	5	0835	0835	2	35.0			
	260 ONDR	45	0943	0944	5.5	115.0			
	536 ONDR	45	0947	0947.5	3	35.0			
	18 MCMA	42	1441	1456	26			1	
29	9240 ARCE	21	0850	0851.7	34.8				
	9240 ARCE	40	0856.4	0857.7	8				
	18 MCMA	42	1628	1639	12			2	
30	2800 OTTA	20	1710	1730	40	1.2	0.6		
	2695 PENT		1710	1730	40				NULL
	18 MCMA	42	2008	2019	12			1	
	18 MCMA	42	2034	2035	6			1	
31	2800 OTTA	20	1722	1735	28	.6	0.4		
	2695 PENT		1722	1735	28				NULL
	2695 PENT	24	2128	2140	12	.8	0.4		
	2695 PENT	24	2140		95 D	.8			

Observatories:

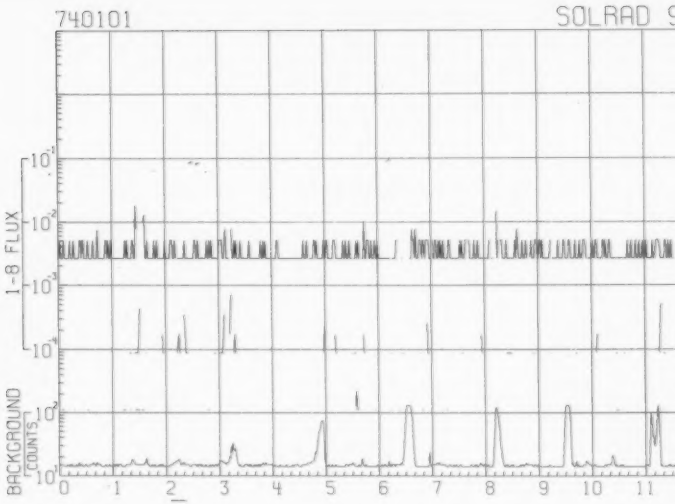
ABST = Abastumani
ARCE = Arcetri
BERL = Berlin-Adlershof
BERN = Berne
BORD = Bordeaux
BOUL = Boulder
CANR = Canary Islands
CRIM = Simferopol
CRON = Carnarvon
DWIN = Dwingeloo
GORK = Gorky
HIRA = Hiraiso
HUAN = Huancayo
IRKU = Irkutsk
IZMI = Moscow IZMIRAN
KIEV = Kiev
KISV = Kislovodsk
MANI = Manila
MCMA = McMath-Hulbert
ONDR = Ondrejov
OTTA = Ottawa ARO
PENN = Penn. State Univ.
PENT = Penticton
POTS = Potsdam
SAOP = Sao Paulo
SGMR = Sagamore Hill
SLOU = Slough
TRST = Trieste
TYKW = Toyokawa
UPIC = Upice
VORO = Voroshilov

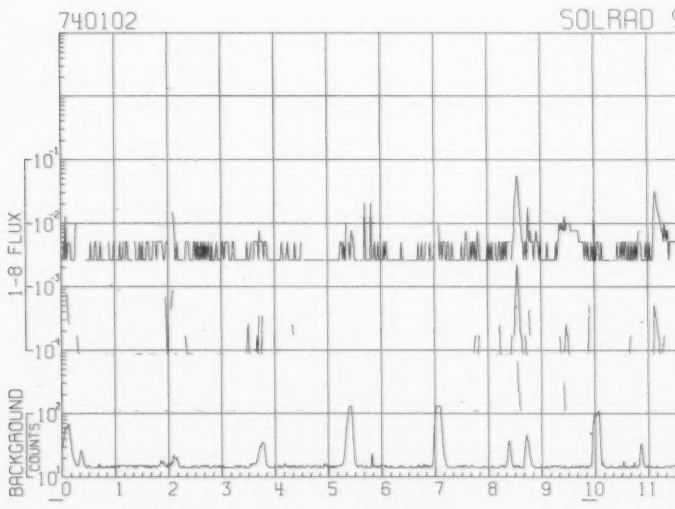
Explanation of Type Code:

1 Simple 1
2 Simple 1F
3 Simple 2
4 Simple 2F
5 Simple
6 Minor
7 Minor +
8 Spike
20 Simple 3
21 Simple 3A
22 Simple 3F
23 Simple 3AF
24 Rise
25 Rise A
26 Fall
27 Rise and Fall
28 Precursor
29 Post Burst Increase
30 Post Burst Increase A
31 Post Burst Decrease
32 Absorption
40 Fluctuation
41 Group of Bursts
42 Series of Bursts
43 Onset of Noise Storm
44 Noise Storm in Progress
45 Complex
46 Complex F
47 Great Burst
48 Major
49 Major +

SOLAR X-RAYS MEASURED BY SA

JANU

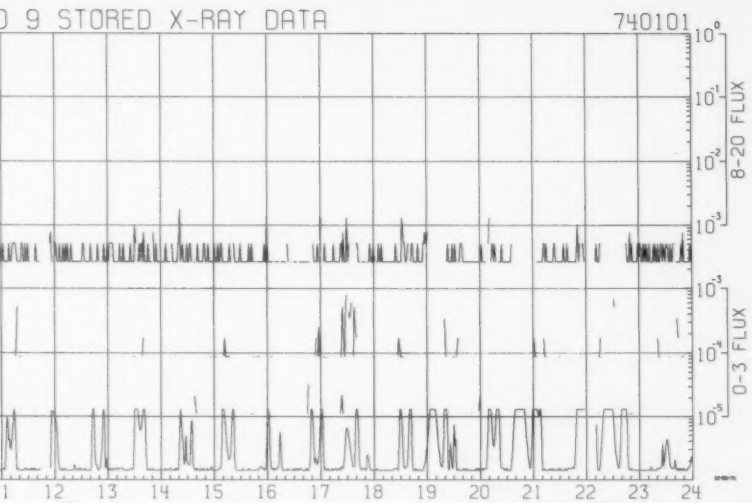


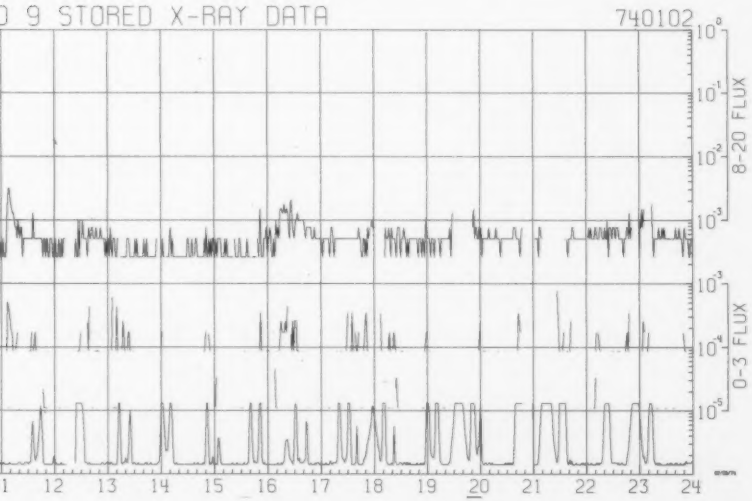


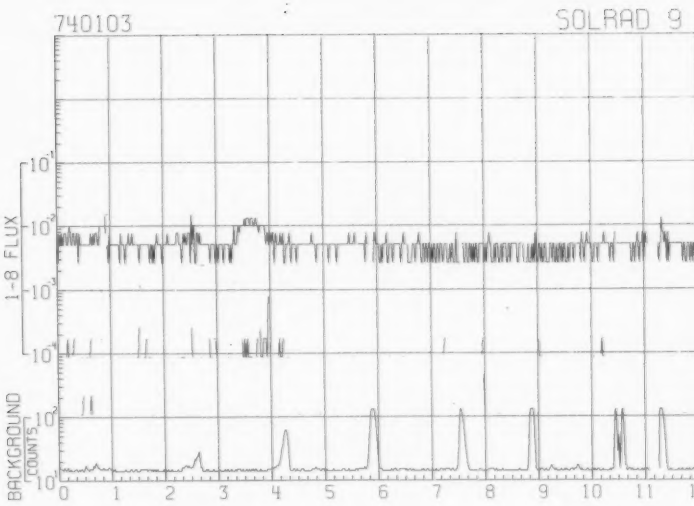
SATELLITE SOLRAD 9 - EXPLORER 37

NUARY 1974

18
Jan 74






740103
SOLRAD 9
1-8 FLUX
BACKGROUND
COUNTS
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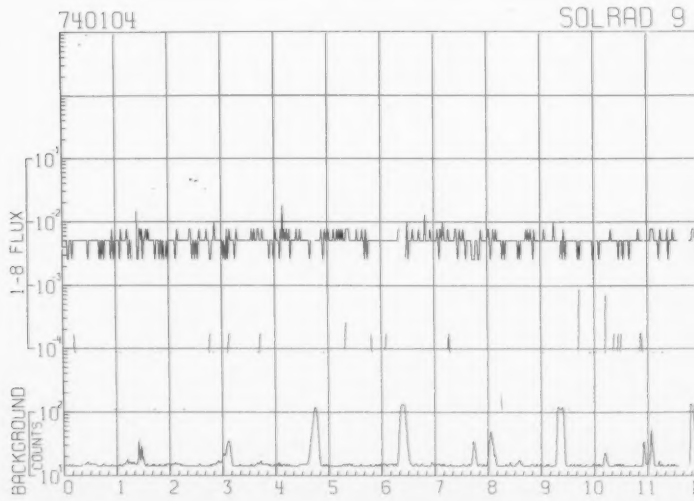
740104
SOLRAD 9
1-8 FLUX
BACKGROUND
COUNTS
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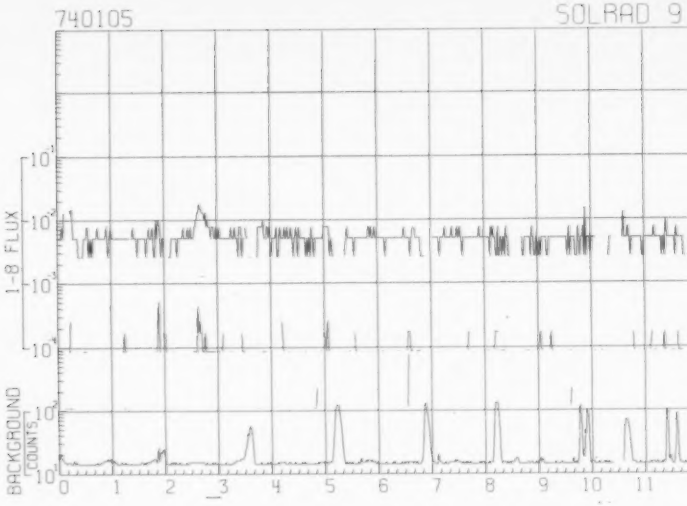
9 STORED X-RAY DATA 740103

9 STORED X-RAY DATA 740104

19 Jan 74


740105
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1-8 FLUX
BACKGROUND COUNTS
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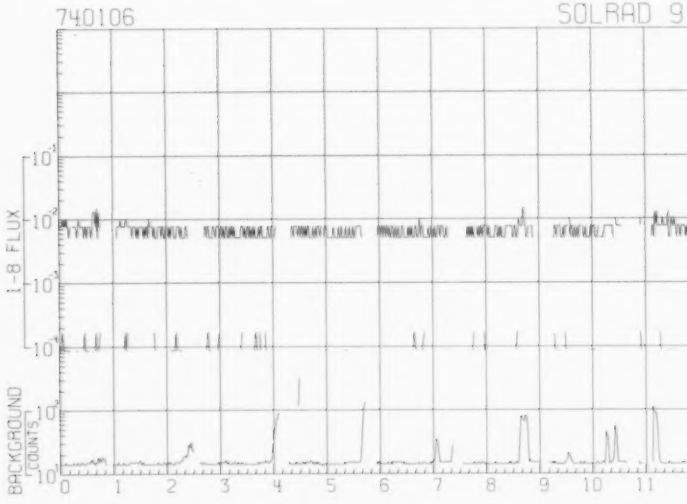

740106
SOLRAD 9
1-8 FLUX
BACKGROUND COUNTS
0 1 2 3 4 5 6 7 8 9 10 11

20
Jan 74

9 STORED X-RAY DATA 740105

8-20 FLUX

0-3 FLUX

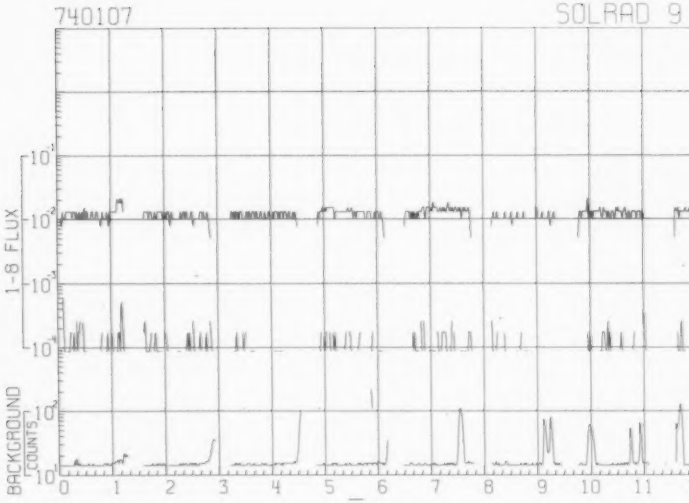
12 13 14 15 16 17 18 19 20 21 22 23 24

9 STORED X-RAY DATA 740106

8-20 FLUX

0-3 FLUX

12 13 14 15 16 17 18 19 20 21 22 23 24


740107
SOLRAD 9
1-8 FLUX
BACKGROUND COUNTS
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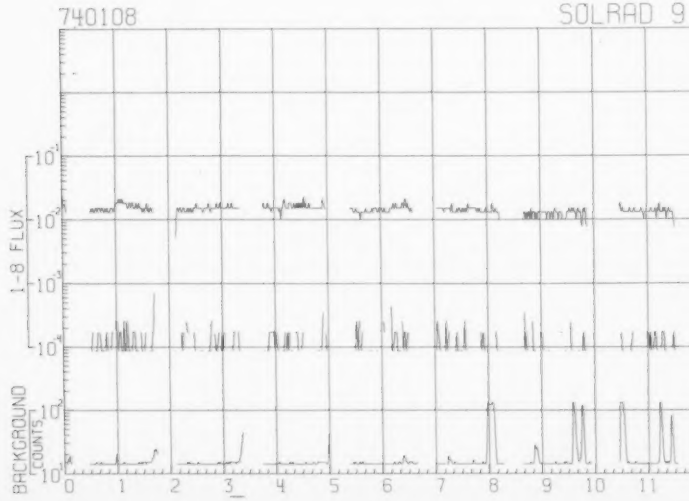
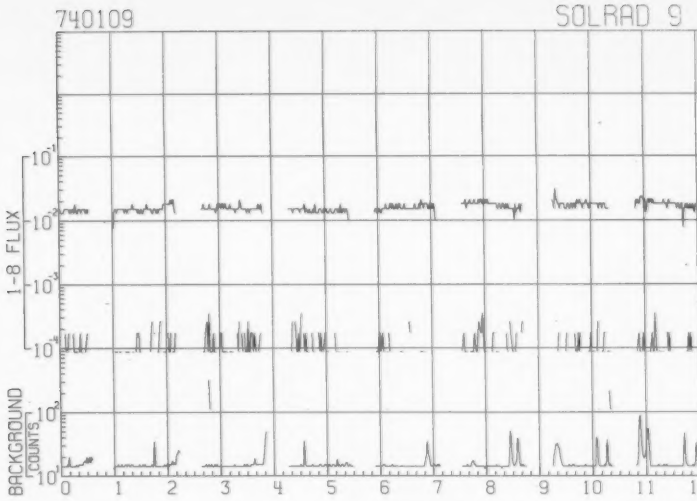

740108
SOLRAD 9
1-8 FLUX
BACKGROUND COUNTS
0 1 2 3 4 5 6 7 8 9 10 11

9 STORED X-RAY DATA 740107

9 STORED X-RAY DATA 740108

21
Jan 74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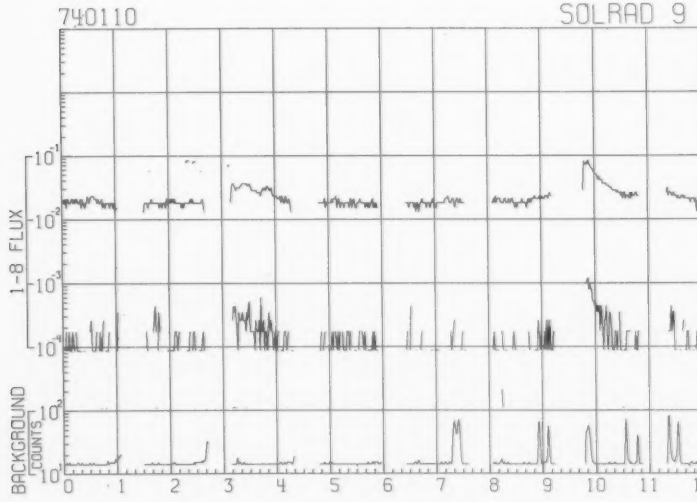
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22
Jan 74

9 STORED X-RAY DATA 740109

8-20 FLUX

0-3 FLUX

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9 STORED X-RAY DATA 740110

8-20 FLUX

0-3 FLUX

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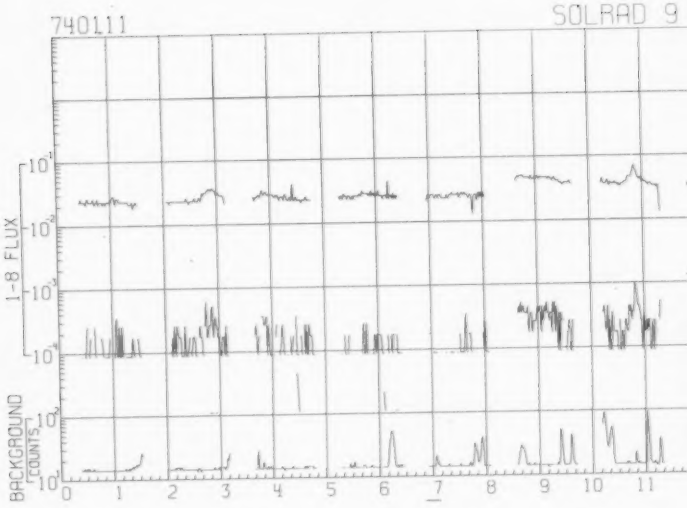
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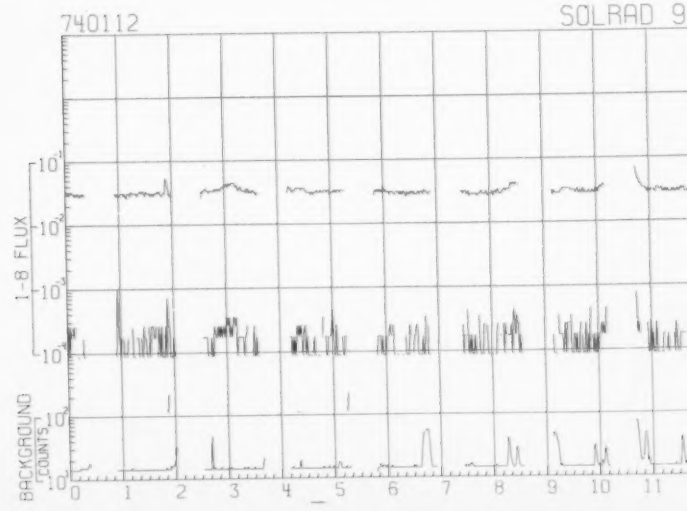
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9 STORED X-RAY DATA 740111

8-20 FLUX

0-3 FLUX

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9 STORED X-RAY DATA 740112

8-20 FLUX

0-3 FLUX

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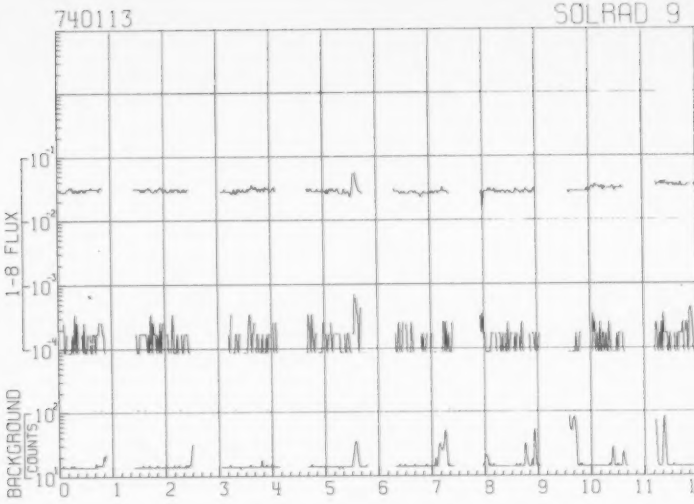
23
Jan 74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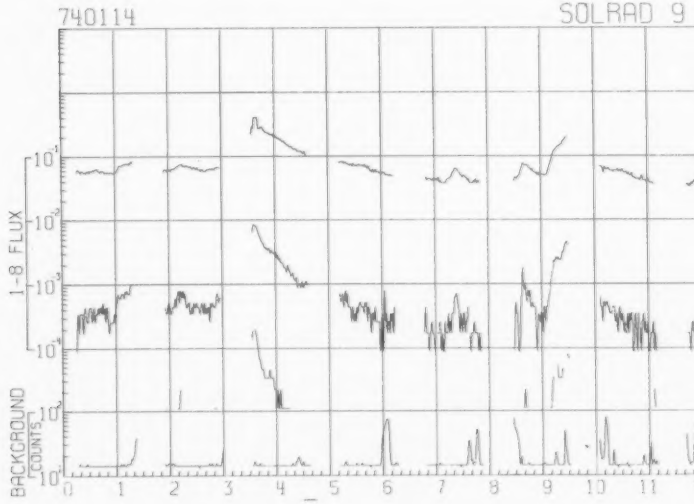
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24
Jan 74

9 STORED X-RAY DATA 740113

8-20 FLUX

0-3 FLUX

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9 STORED X-RAY DATA 740114

8-20 FLUX

0-3 FLUX

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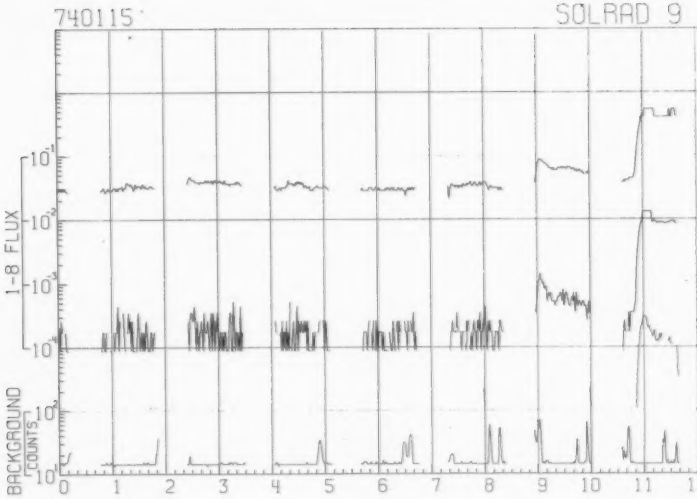
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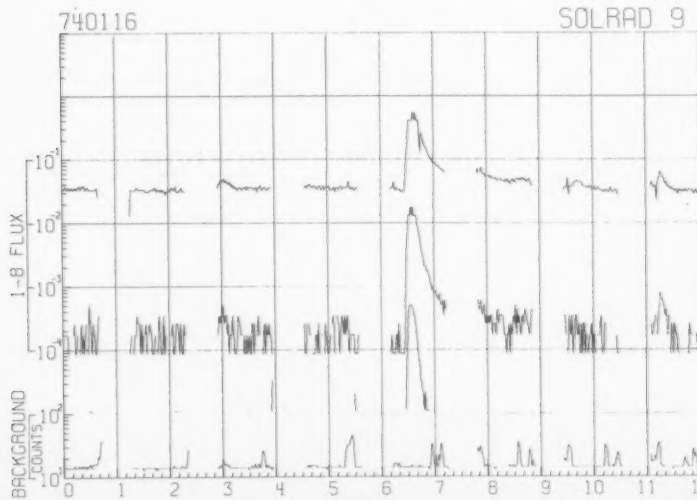
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1-8 FLUX
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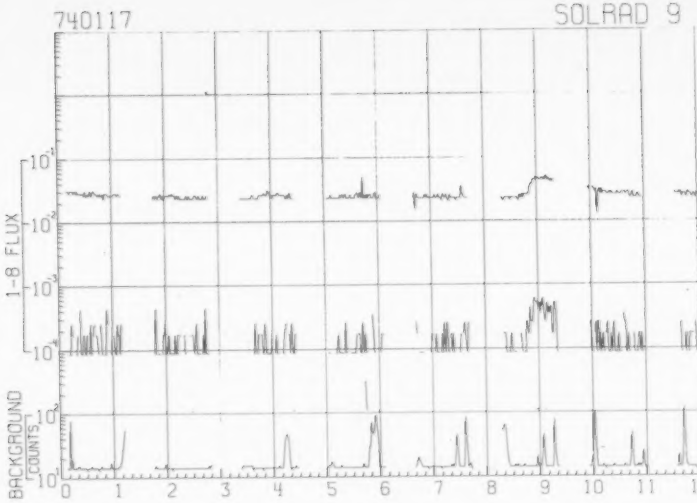
9 STORED X-RAY DATA 740115

9 STORED X-RAY DATA 740116

25
Jan 74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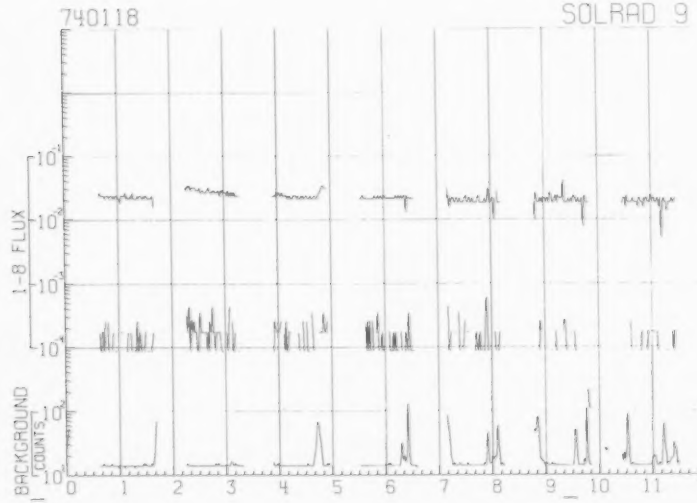
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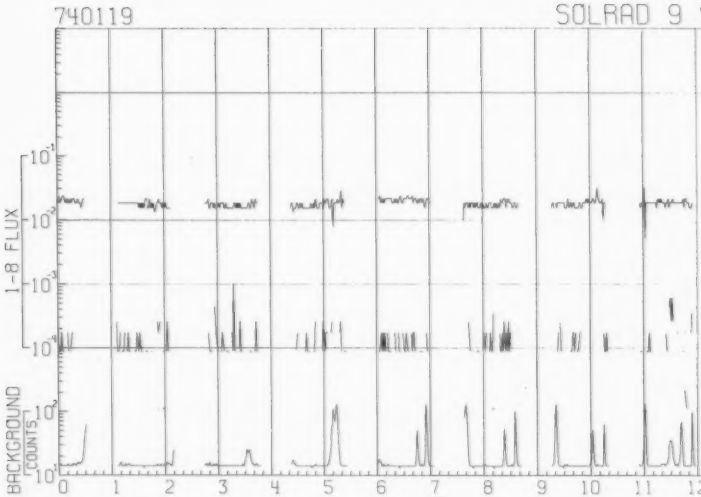
9 STORED X-RAY DATA 740117

9 STORED X-RAY DATA 740118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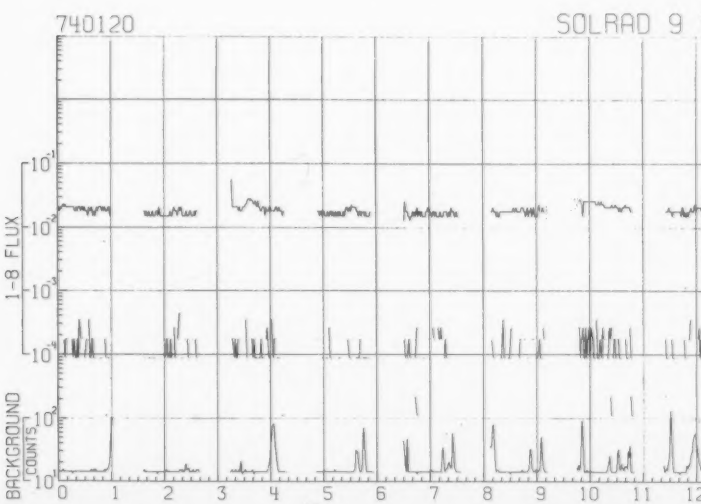
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9 STORED X-RAY DATA 740119

9 STORED X-RAY DATA 740120

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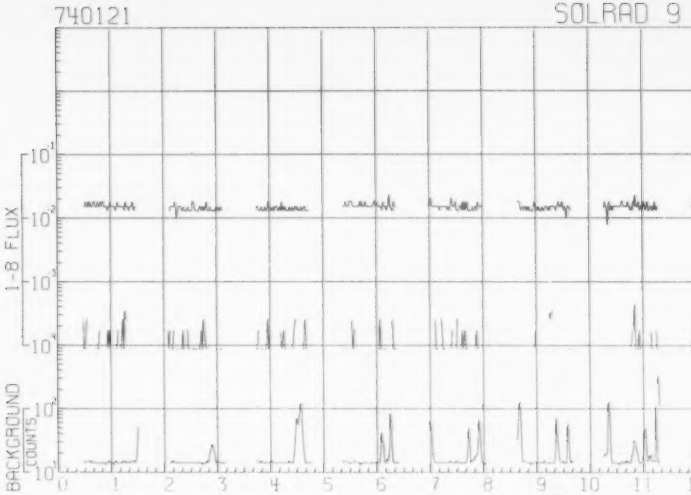
Jan 74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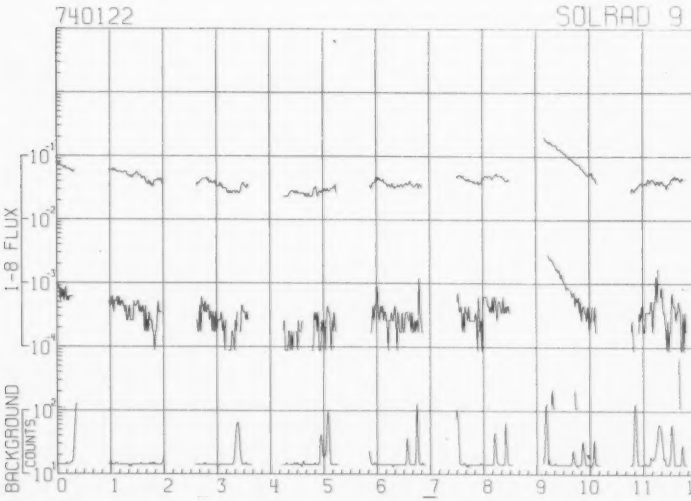
740122
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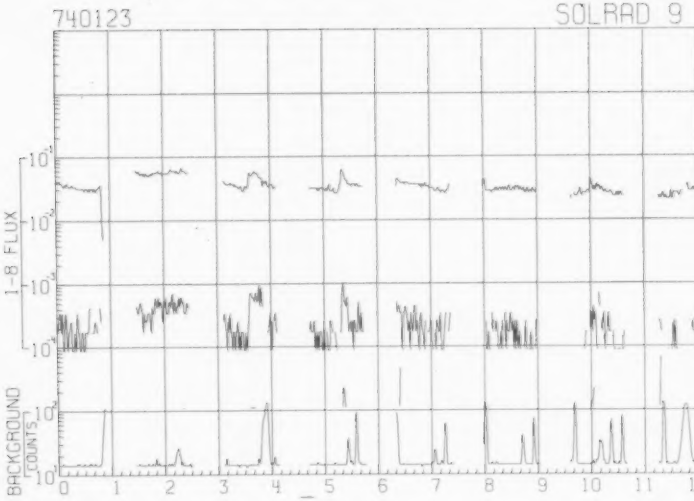
Jan 74

9 STORED X-RAY DATA 740121

9 STORED X-RAY DATA 740122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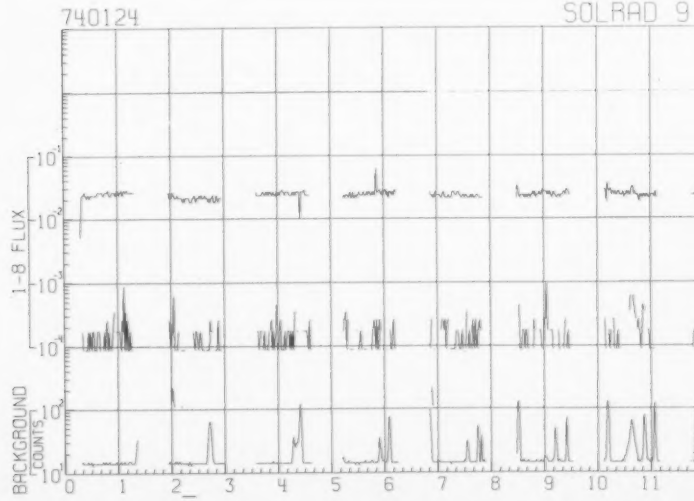
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1-8 FLUX
BACKGROUND
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9 STORED X-RAY DATA 740123

8-20 FLUX

0-3 FLUX

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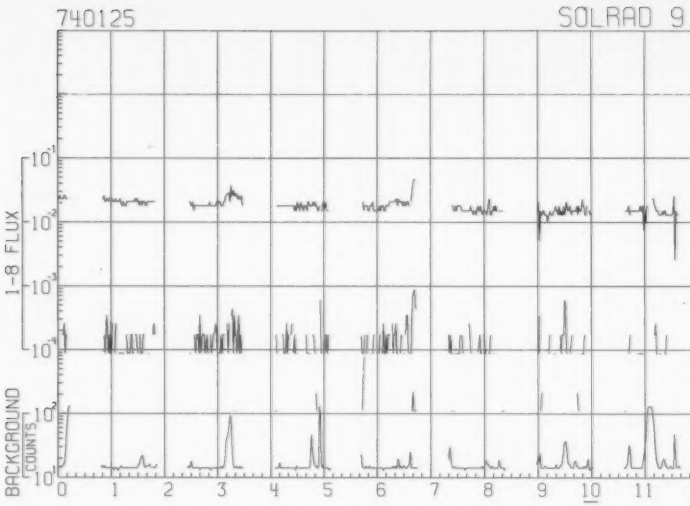
9 STORED X-RAY DATA 740124

12_ 13 14 15 16 17 18 19 20 21 22_ 23 24

29
Jan 74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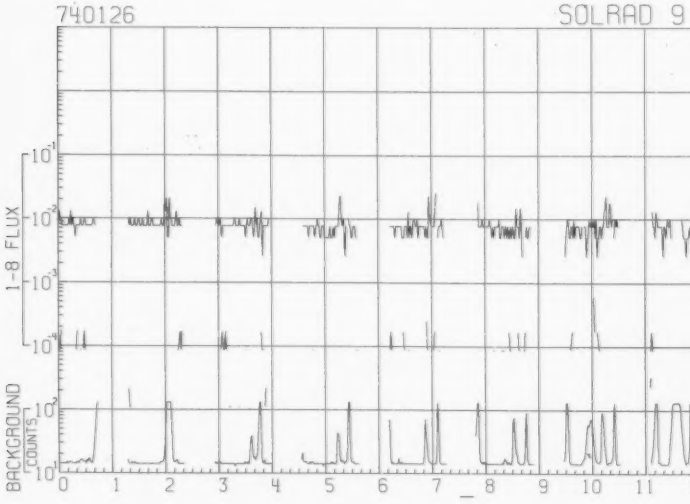
740126
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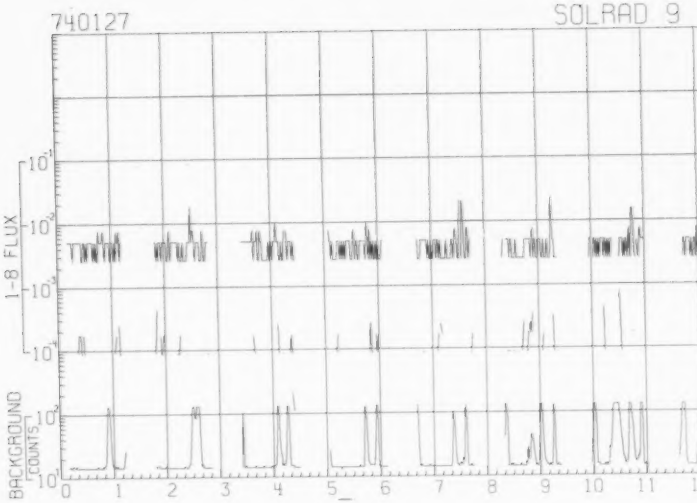
30
Jan 74

9 STORED X-RAY DATA 740125

9 STORED X-RAY DATA 740126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COUNTS
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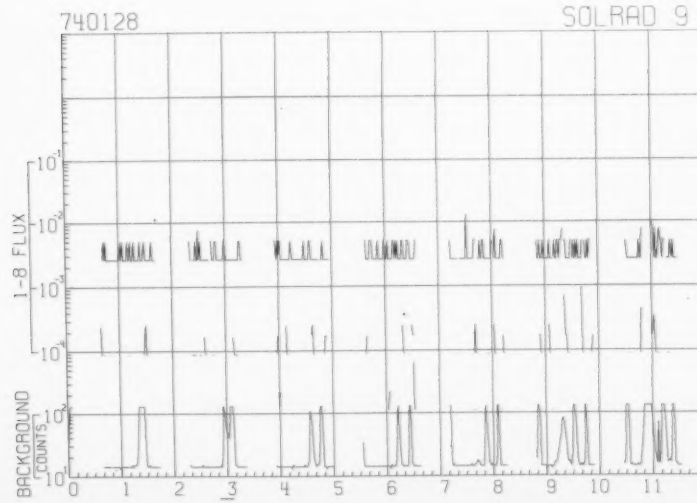
740128
SOLRAD 9
1-8 FLUX
BACKGROUND
COUNTS
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9 STORED X-RAY DATA 740127

8-20 FLUX

0-3 FLUX

12 13 14 15 16 17 18 19 20 21 22 23 24

9 STORED X-RAY DATA 740128

8-20 FLUX

0-3 FLUX

12 13 14 15 16 17 18 19 20 21 22 23 24

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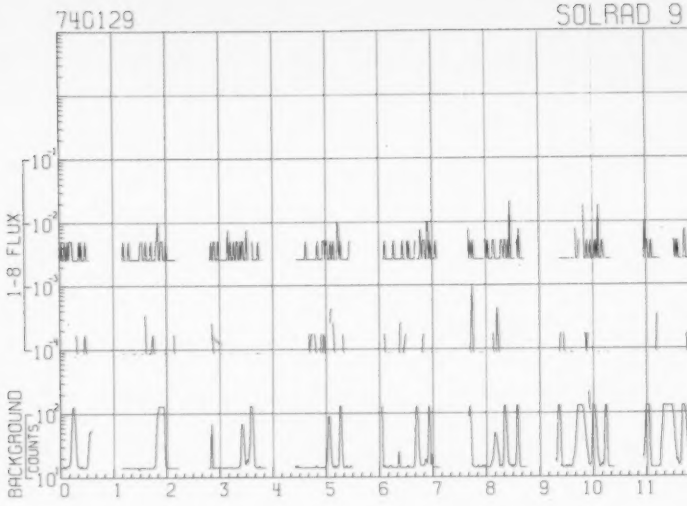
Jan 74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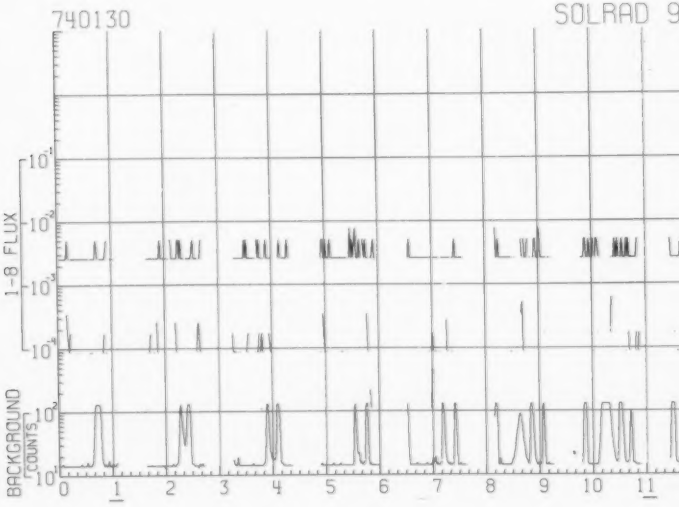
740130
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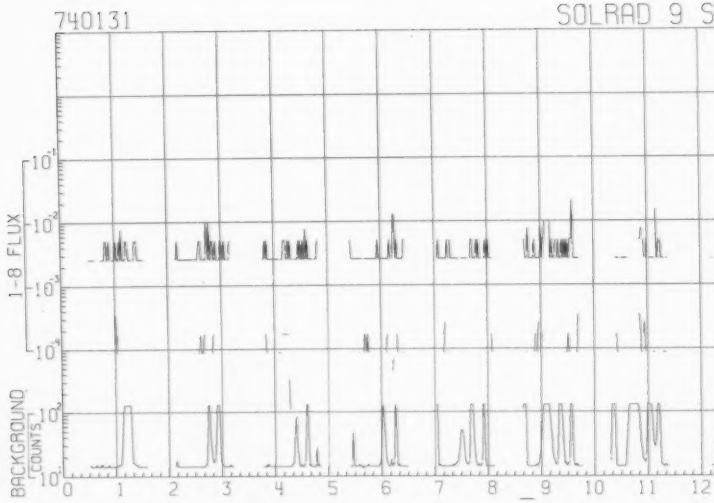
Jan 74

9 STORED X-RAY DATA 740129

9 STORED X-RAY DATA 740130


740131
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1-8 FLUX
BACKGROUND
(COUNTS)
0
1
2
3
4
5
6
7
8
9
10
11
12

STORED X-RAY DATA - 740131

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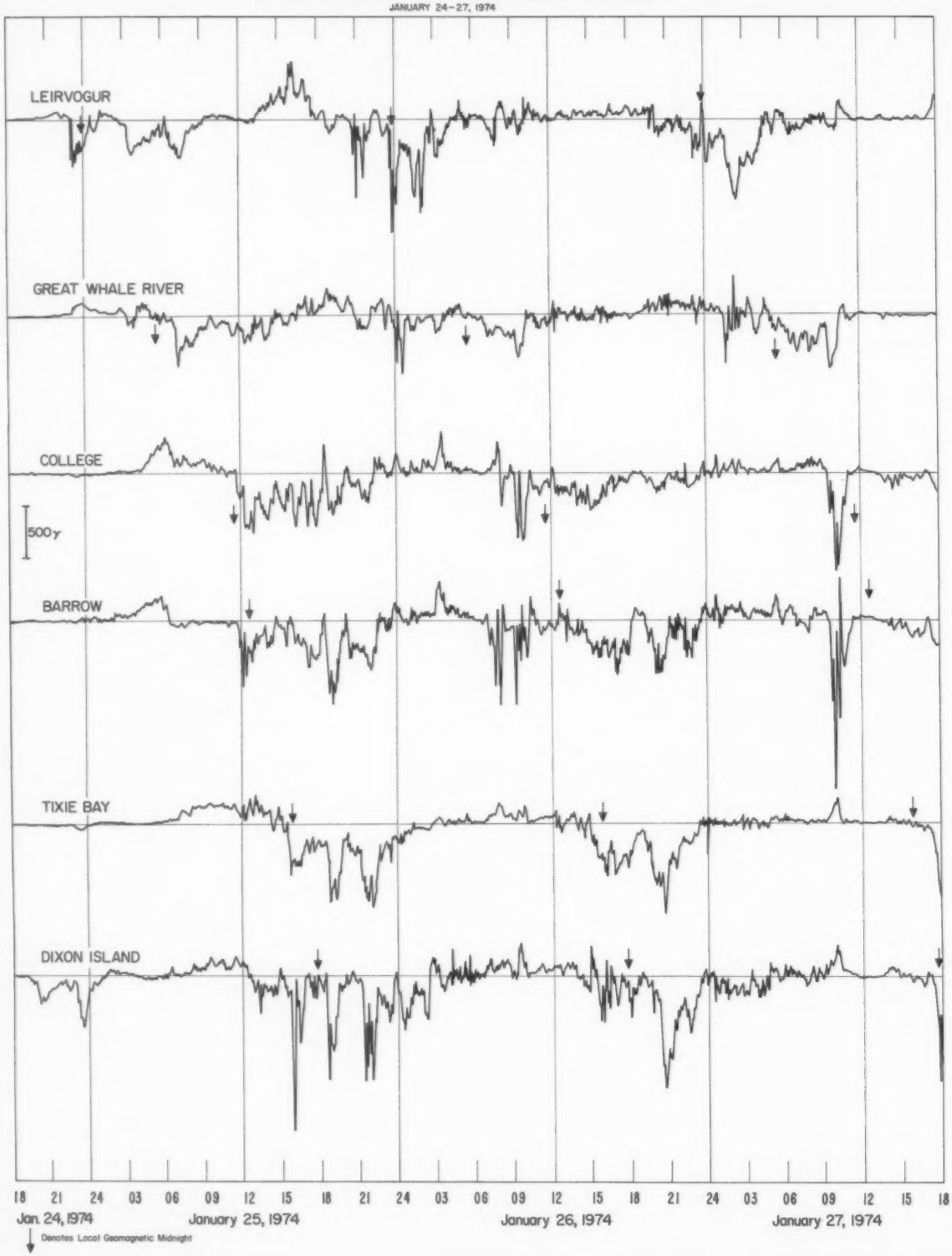
Jan 74

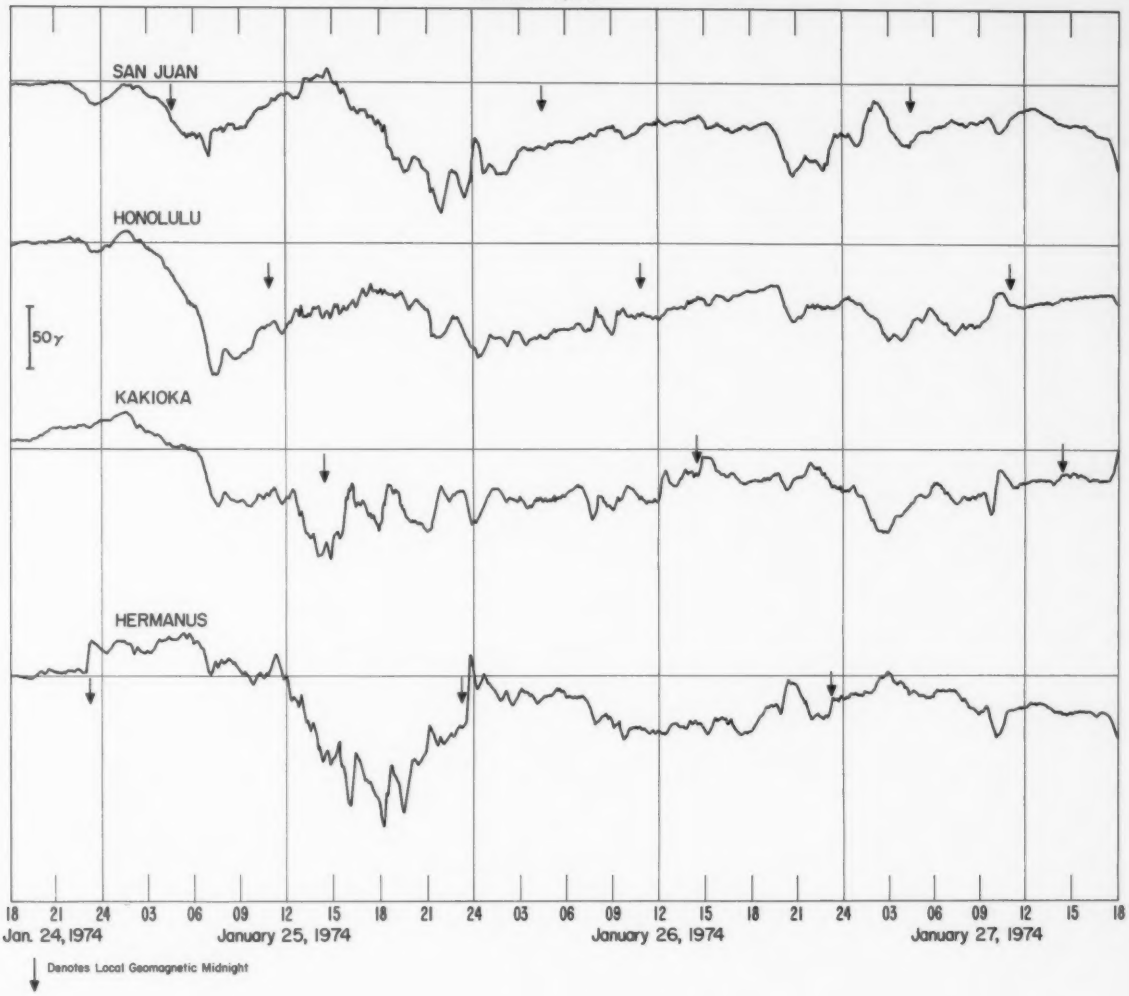
MAGNETOGRAMS OF GEOMAGNETIC STORMS

JANUARY 24–27, 1974

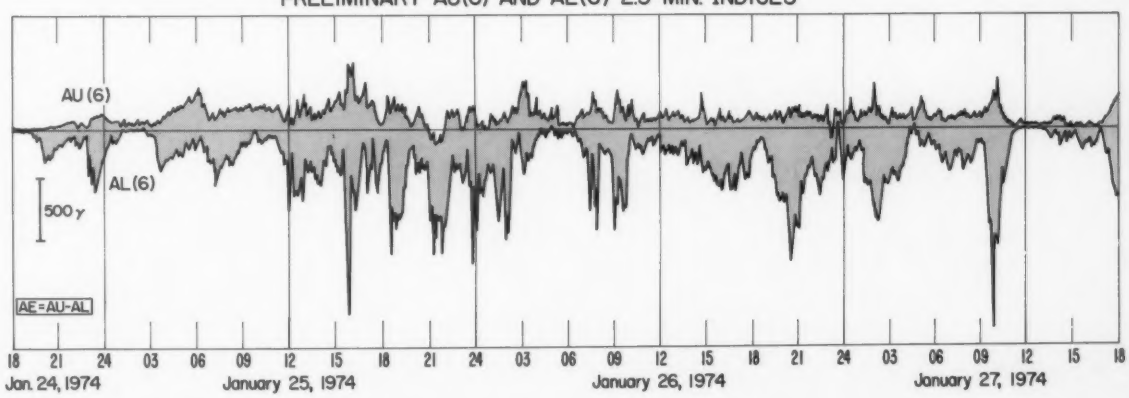

LEIRVOGUR
GREAT WHALE RIVER
COLLEGE
500γ
BARROW
TIXIE BAY
DIXON ISLAND
18 21 24 03 06 09 12 15 18 21 24 03 06 09 12 15 18 21 24 03 06 09 12 15 18
Jan. 24, 1974
January 25, 1974
January 26, 1974
January 27, 1974
Denotes Local Geomagnetic Midnight

MAGNETOGRAMS OF GEOMAGNETIC STORMS

JANUARY 24 - 27, 1974


SAN JUAN
HONOLULU
50γ
KAKIOKA
HERMANUS
18 21 24 03 06 09 12 15 18 21 24 03 06 09 12 15 18 21 24 03 06 09 12 15 18
Jan. 24, 1974
January 25, 1974
January 26, 1974
January 27, 1974
Denotes Local Geomagnetic Midnight

PRELIMINARY AU(6) AND AL(6) 2.5-MIN. INDICES



DECEMBER 1973 DATA

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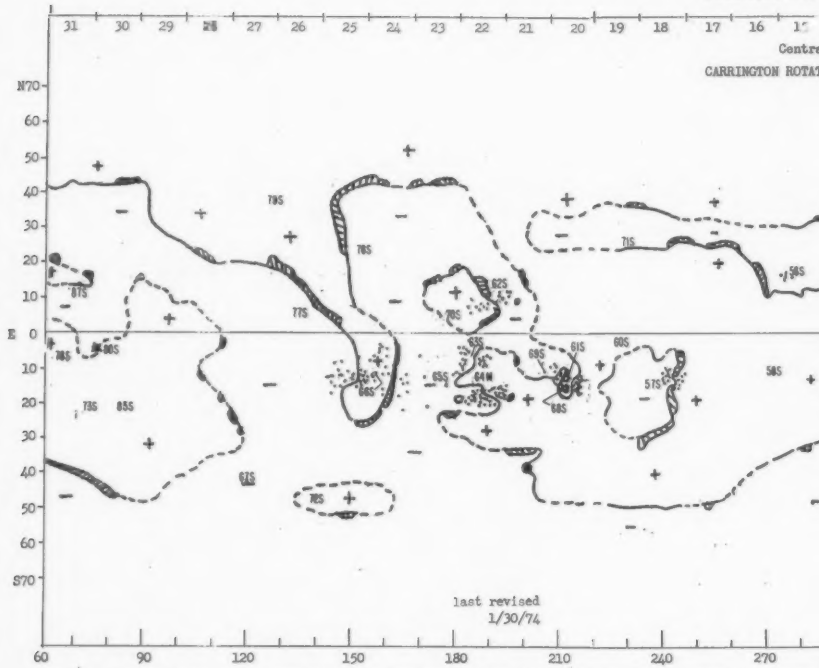
Regional Flare Index	45

For explanations of the data contained herein see *Descriptive Text* published as supplement to February 1974 *Solar-Geophysical Data* (Number 354).

ABBREVIATED CALEN

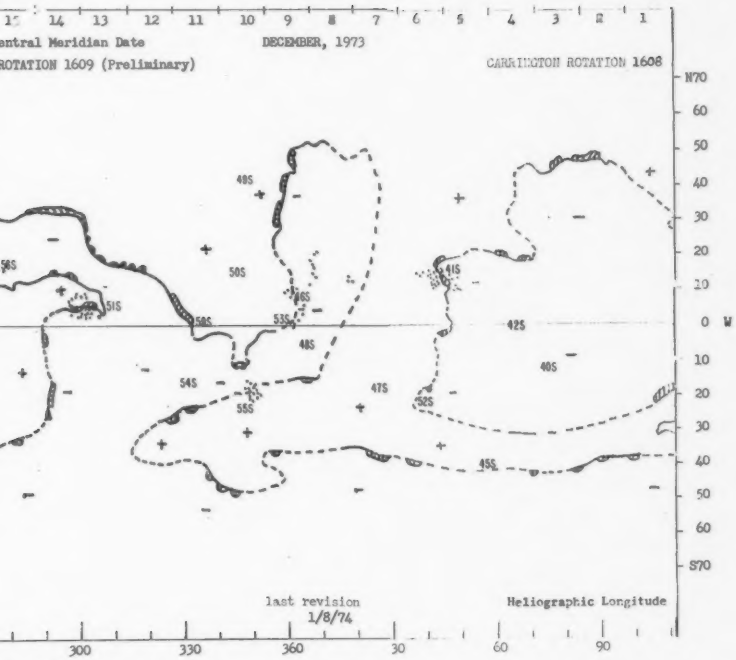
DECEMBER 1973



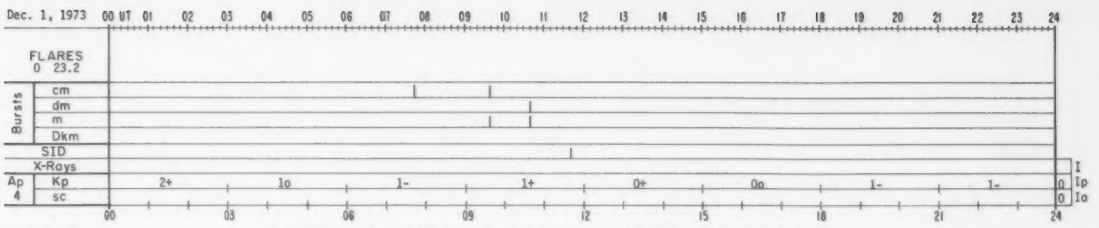
Errata: The longitudes on the synoptic charts have been labeled "Carrington longitude". These longitudes
the heliographic system. This change should also be noted on page 20 of the *Descriptive Text* publ

ENDAR RECORD

1973

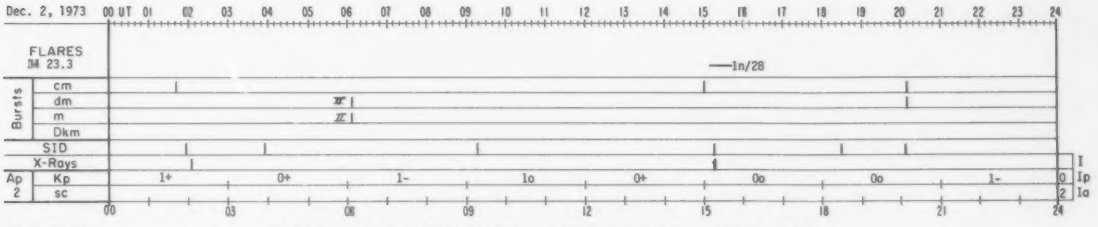


udes are, in fact, in
published February 1974.



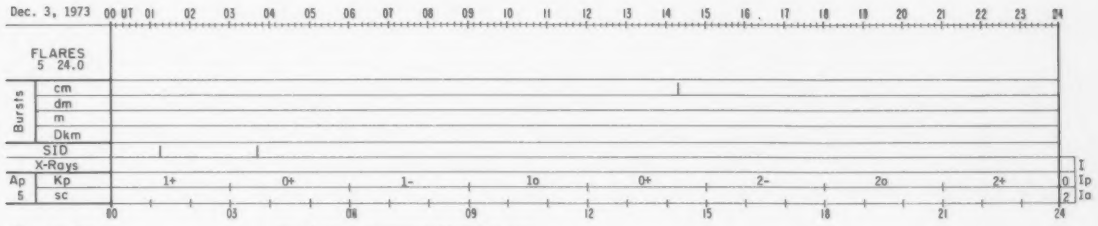
89 10 cm flux
46 Rz (Final)

One of five most magnetically quiet days; no coronal data 7 days later on W. limb.



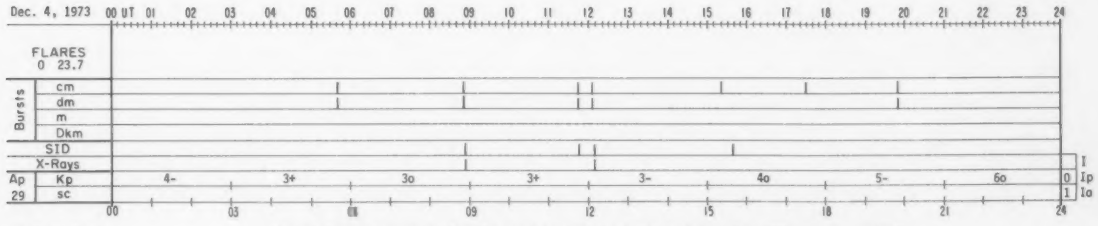
89 10 cm flux
24 Rz

One of five most magnetically quiet days; no coronal data 7 days earlier on E. limb.



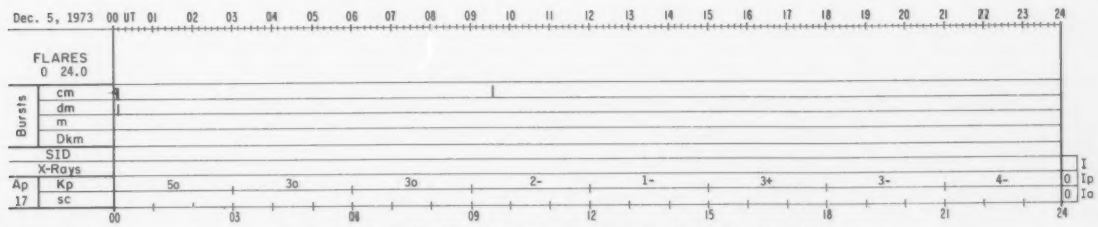
85 10 cm flux
24 Rz
CMP (12640) S14

One of ten most magnetically quiet days.



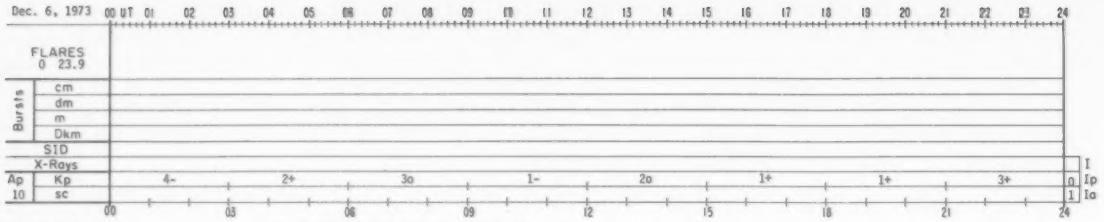
81 10 cm flux
0 Rz
CMP (12642) N00

One of five most magnetically disturbed days with moderate activity after 1500; aurora overhead over USSR at ϕ = 49° 1800-2200, cloudy conditions in northern British Isles, but auroral glow seen in northern England at ϕ = 57° 2030-2100 and as veil to 50° above the horizon in southern Norway at ϕ = 59° 1830-2110.



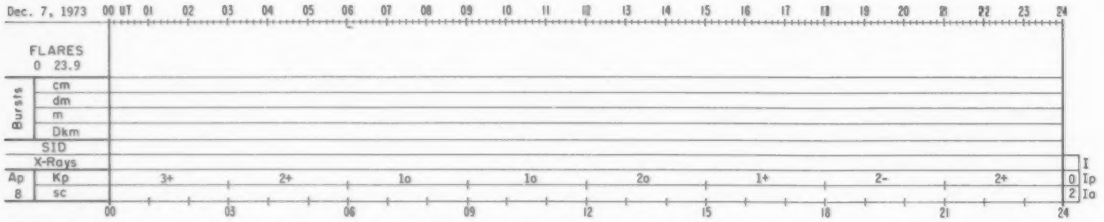
76 10 cm flux
0 Rz
CMP (12645) S40

Aurora overhead over USSR at ϕ = 54° 1800-1900, 2000-2100, 2200 and ϕ = 58° 2300-2400.



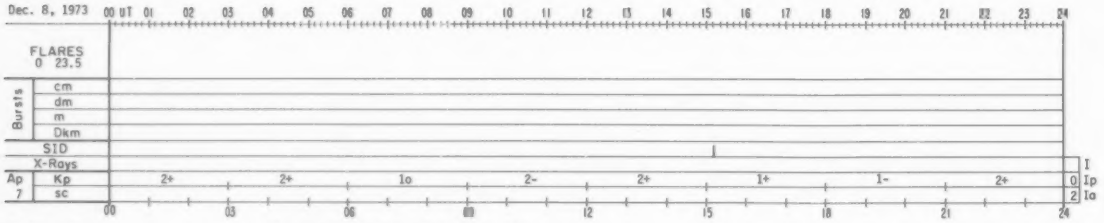
73 10 cm flux
0 Rz
CMP 12641 N13
(12652) S22

No coronal data 7 days later on W. limb.



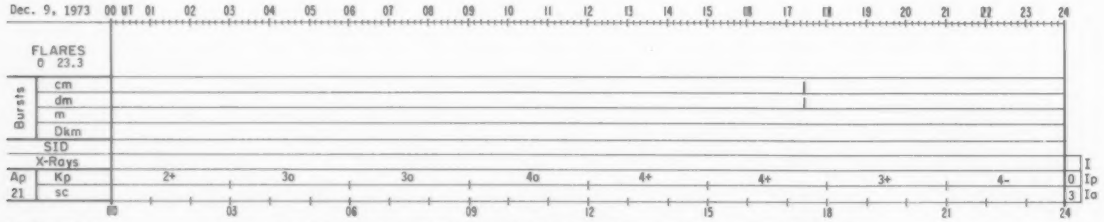
73 10 cm flux
0 Rz
CMP (12647) S18

No coronal data 7 days earlier on E. limb, nor 7 days later on W. limb.



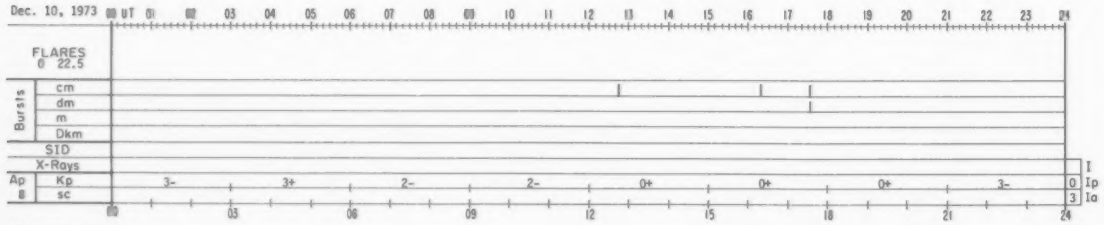
73 10 cm flux
7 Rz

No coronal data 7 days later on W. limb.

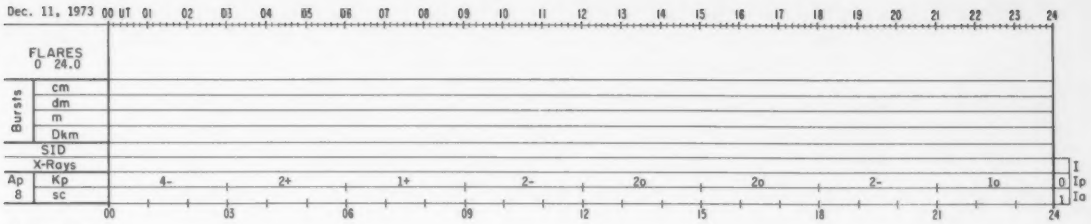


73 10 cm flux
8 Rz
CMP (12648) S06
12646 N09
12653 N01

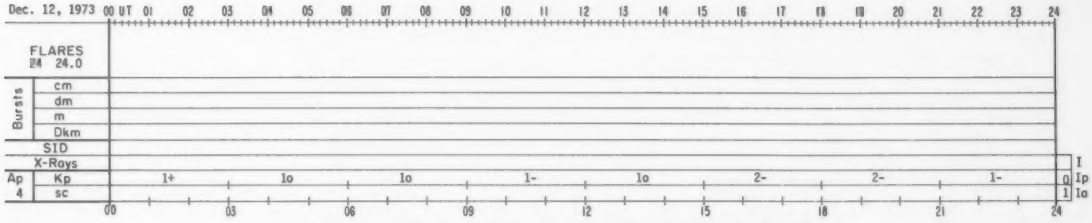
One of five most magnetically disturbed days with slight-to-moderate activity after 0300.



74 10 cm flux
16 Rz
CMP (12649) N41
(12655) S22
(12650) N15

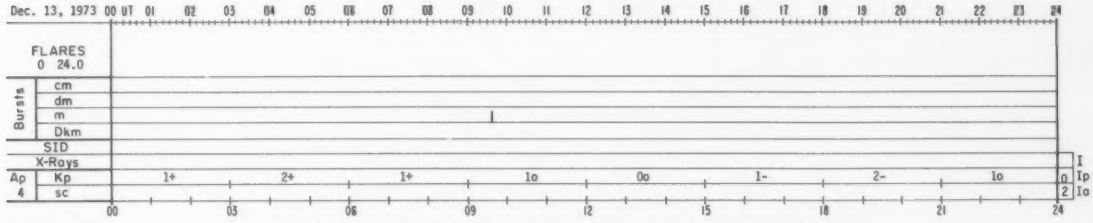


74 10 cm flux
9 Rz
CMP (12659) N01
(12654) S16 (19303) S21 βp CMP Dec. 10



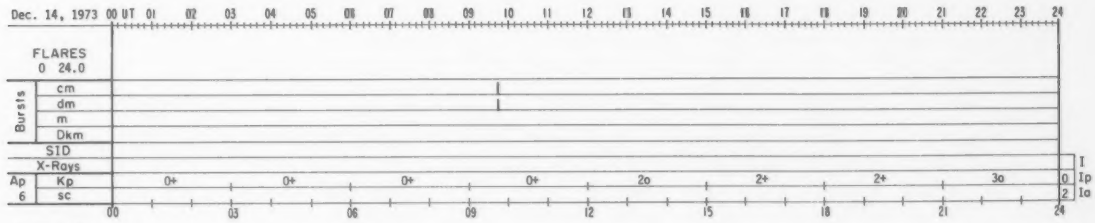
75 10 cm flux
9 Rz

One of ten most magnetically quiet days; no coronal data 7 days earlier on E. limb, nor 7 days later on W. limb.

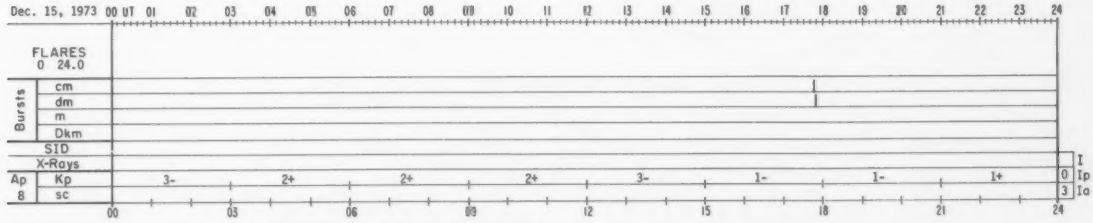


75 10 cm flux
8 Rz
CMP 12651 N05 19302 N02 (αp)3
(19304) N09

One of ten most magnetically quiet days; moderately br. green corona 7 days earlier on NE limb, no coronal data 7 days earlier on E. limb at 95° -180°.

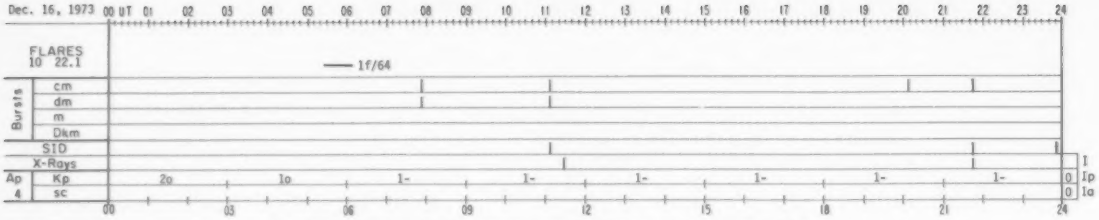


76 10 cm flux
8 Rz



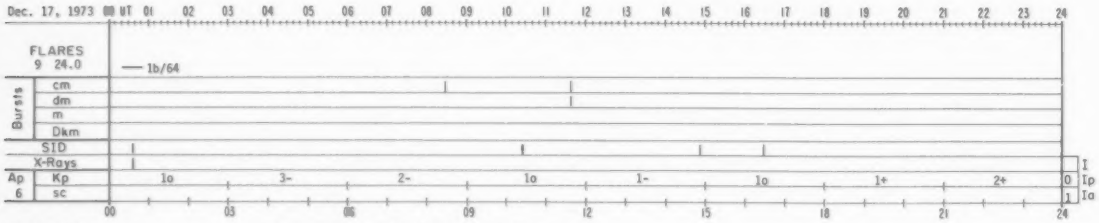
79 10 cm flux
17 Rz
CMP 12656 N16

No coronal data 7 days earlier on E. limb.



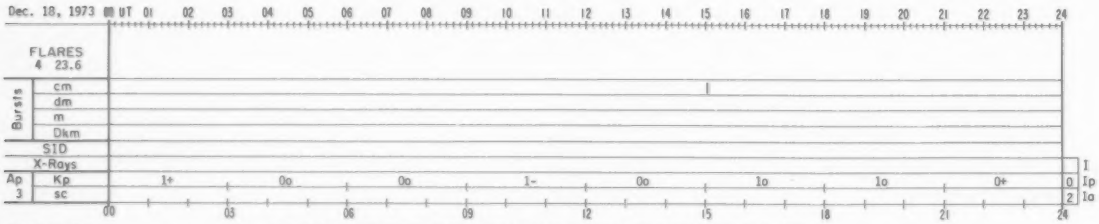
82 10 cm flux
26 Rz
CMP (12658) S11

One of five most magnetically quiet days; no coronal data 7 days later on W. limb.



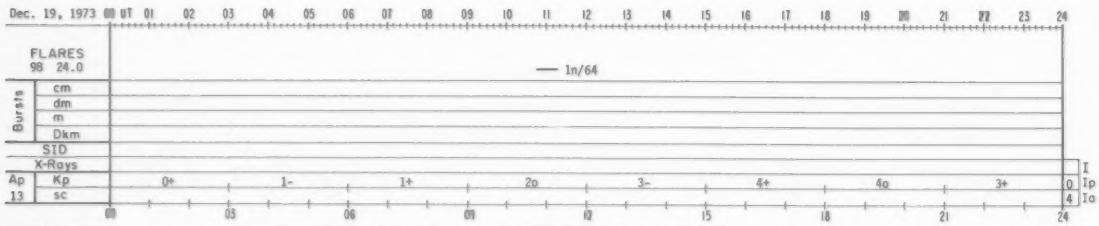
85 10 cm flux
40 Rz

No coronal data 7 days later on W. limb.



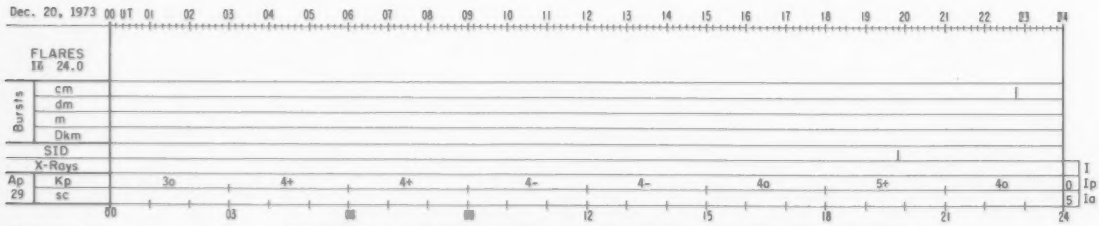
88 10 cm flux
43 Rz
CMP (12657) S15 (2) (N12)

One of five most magnetically quiet days; no coronal data 7 days later on W. limb.



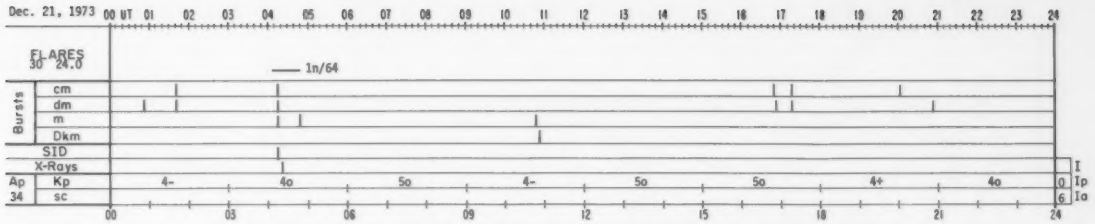
91 10 cm flux
41 Rz
CMP (12671) N25
(12660) S04 (N13)

Aurora overhead over USSR at ϕ = 59° 1400-1500 and ϕ = 57° 1700-1900.



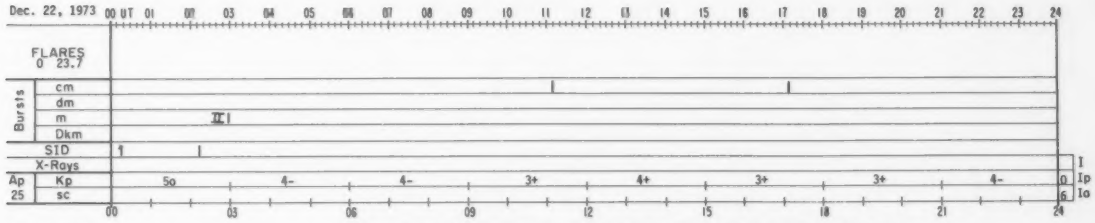
93 10 cm flux
47 Rz
CMP 12661 S14 (7) 19308 S14 (ap)3
(12668) S16 19308 S14 β

One of five most magnetically disturbed days, with moderate activity after 0300; aurora overhead over USSR at ϕ = 57° 1300 and 1400-1500, ϕ = 55° 1500-1800, ϕ = 54° 2000 and ϕ = 58° 2000-2300; moderately br. green corona 7 days later on SW limb.



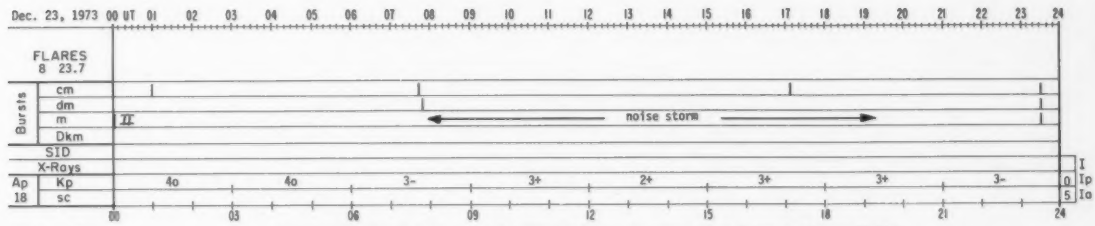
101 10 cm flux
51 Rz
CMP (12669) S12 (19309) S11 (βp)3

One of five most magnetically disturbed days, with moderate activity all day; aurora overhead over USSR at ϕ = 57° 1500-2400; no coronal data 7 days earlier on E. limb.



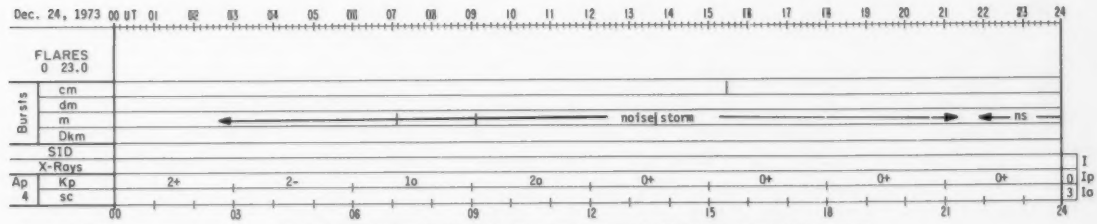
100 10 cm flux
51 Rz
CMP 12662 N08 (2) 19305 N09 (αp)3 CMP Dec. 21
12664 S17 19306 S18 (βp)5
12663 S07 (2) 19307 S07 αp

One of five most magnetically disturbed days, with slight-to-moderate activity all day; aurora overhead over USSR at ϕ = 59° 1200-1400 and 1900; no coronal data 7 days earlier on E. limb, br. green corona 7 days later on SW limb.



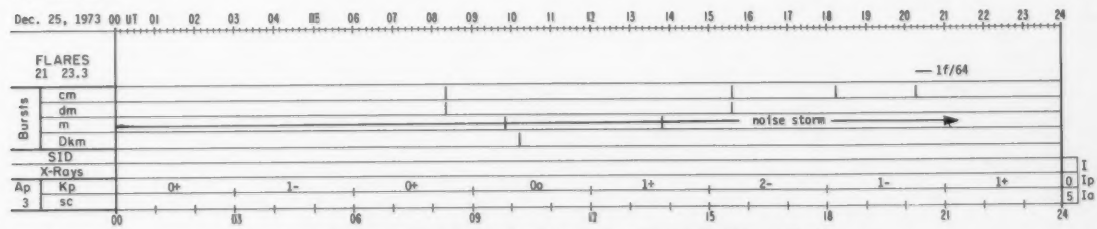
99 10 cm flux
47 Rz
CMP (12670) N05
12665 S14 (2)

Aurora overhead over USSR at ϕ = 59° 1200-1500; very br. green corona 7 days earlier on SE limb, moderately br. green corona 7 days earlier NE limb.



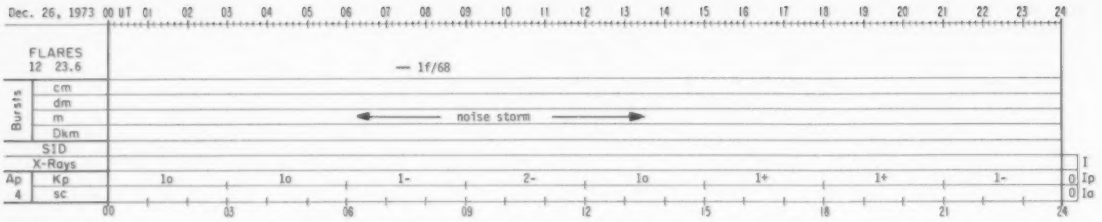
101 10 cm flux
51 Rz
CMP 12666 S12 (2)

One of ten most magnetically quiet days, extremely quiet after 1200; moderately br. green corona 7 days earlier on SE limb.



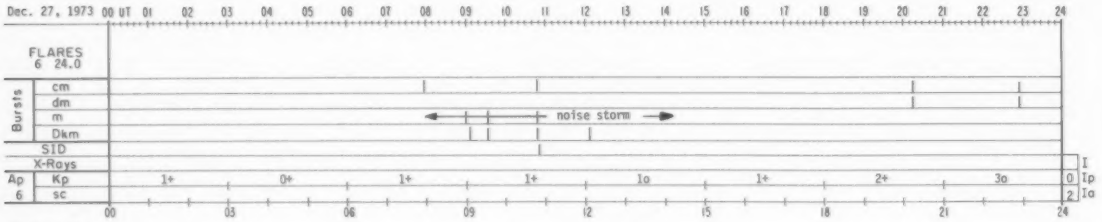
101 10 cm flux
53 Rz
CMP (12676) N23

One of five most magnetically quiet days; br. green corona 7 days earlier on SE limb.

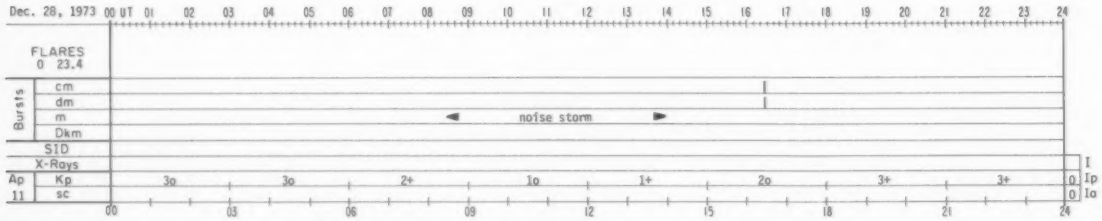


96 10 cm flux
57 Rz
CMP (12672) S48
(12677) N06

One of ten most magnetically quiet days; no coronal data 7 days earlier on E. limb.

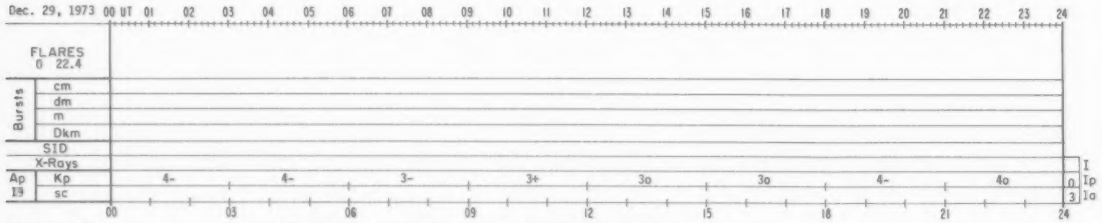


92 10 cm flux
26 Rz
CMP (12679) N37
(12667) S43



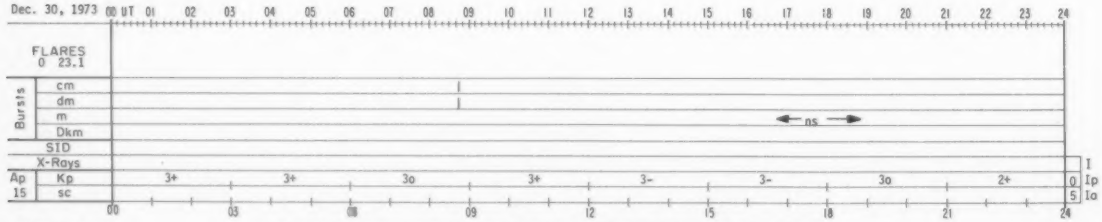
84 10 cm flux
12 Rz

Aurora overhead over USSR at ϕ = 56° 1600-2200.



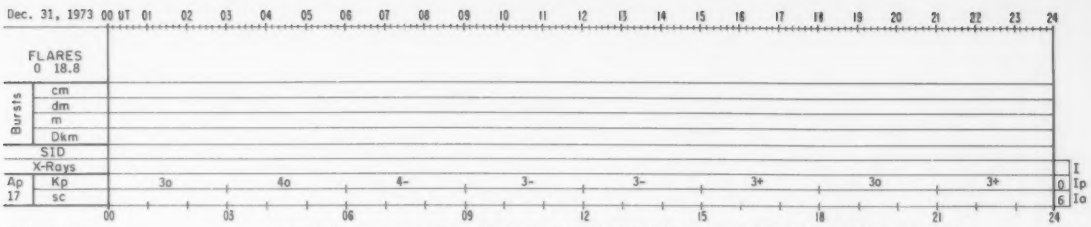
79 10 cm flux
0 Rz

Aurora overhead over USSR at ϕ = 59° 1300-1600 and 2000-2300.



77 10 cm flux
0 Rz
CMP (12685) S21
(12680) S05

Auroral glow seen over southern Scotland at ϕ = 58° after 1630 and at 2330-0130;
no coronal data 7 days earlier on E. limb, data intermittent 7 days later on W. limb.



74 10 cm flux
0 Rz
CMP (12673) S21
(12687) N13
(12678) S07

Auroral glow seen over southern Scotland at ϕ = 58° 0000-0130; no coronal data 7 days earlier on E. limb.

REGIONAL FLARE INDEX

DECEMBER 1973

MC MATH PLAGE NO.	LAT	CMP DATE	DATE FIRST FLARE	DATE LAST FLARE	FLARE-INDEX SUM	FLARE-INDEX MEAN	TOTAL NO. OF FLARES
12651	N 5	73/12/13.7	73/12/12	73/12/12	24.40	24.40	1
12668	S16	73/12/20.8	73/12/23	73/12/26	19.90	4.98	3
12669	S12	73/12/21.2	73/12/27	73/12/27	1.32	1.32	1
12662	N 8	73/12/22.2	73/12/14	73/12/14	0.23	0.23	1
12664	S17	73/12/22.5	73/12/16	73/12/27	191.97	16.00	20

Note:
The Regional Flare Index and count of flares in each region has in previous months included each maximum of a multi-maximum event. This has caused some regions to appear to be more flare producing than is probably warranted. Beginning with April 1972 only the principal maximum of a multi-maximum event will be used in the calculation. Also note that only the Confirmed Events as selected for the "I.A.U. Quarterly Bulletin on Solar Activity" are included in the calculation.

Because of differences in method of calculation, the dates of Central Meridian Passage for the McMath Plage Regions vary somewhat from those given elsewhere. Any region not listed here produced no confirmed flares during its disk passage.

MISCELLANEOUS DATA

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For explanations of the data contained herein see *Descriptive Text* published as supplement to February 1974 *Solar-Geophysical Data* (Number 354).

SOLAR RADIO EMISSION
SPECTRAL OBSERVATIONS

APRIL 1974

APR 1974	TIMES OF OBSERVATION		STATION	EVENTS												SPECTRAL TYPE
				CENTIMETRIC BAND			DECIMETRIC BAND			METRIC BAND			DEKAMETRIC BAND			
	START UT	END UT		START UT	END UT	INT.	START UT	END UT	INT.	START UT	END UT	INT.	START UT	END UT	INT.	
01	0000	0736	CULG							0714		1				IIIB
	2035	2400	CULG													
02	0000	0736	CULG							0244.5	0246					IIIG,W
	2035	2400	CULG													
03	0000	0735	CULG							0530.5	0531.5	2	0531.5	0531.5	1	IIIG,V
	2035	2125	CULG													
	2246	2335	CULG													
	2340	2400	CULG													
04	0000	0009	CULG													
	0023	0735	CULG													
	2038	2400	CULG													
05	0000	0735	CULG													
	2035	2400	CULG													
06	0000	0106	CULG													
	0130	0735	CULG							0407	0407.5					IIIG,W
			CULG				0409	0410	1	0409	0410	1				IIIG,U
			CULG							0541	0613					IIIN,W
	2035	2400	CULG				2349	2350	1							I
07	0000	0733	CULG							0502.5						IIIB,W
	2033	2400	CULG													
08	0000	0734	CULG													
	2034	2400	CULG							2219	2227	2	2219	2220	1	IIIGG
			CULG							2254	2257	1	2254	2254.5	1	IIIGG
09	0000	0734	CULG							0433	0652					IS,W
			CULG							0654.5						IIIB,W
	2034	2400	CULG				2034	2045	1	2034	2120	1				IS
			CULG							2115	2321					IIIN,W
			CULG							2143	2145	2				IIIG
10	0000	0733	CULG							0320	0733	1				IS
			CULG							0715.5		1				IIIB
	2033	2250	CULG				2034	2250	1	2123	2127					IS
			CULG				2103	2104	1							FAST DRIFT
			CULG				2128	2128.5	2	2128	2128.5	1				IIIG
	2300	2400	CULG				2300	2400								IS,W
			CULG				2359.5	2401	1	2359.5	2401	1				IIIG
11	0000	0733	CULG				0000	0620								IS,W
			CULG				0128	0128.5	1							IIIG
			CULG				0132.5	0133.5	1	0132.5	0133.5	1				IIIG
			CULG				0137	0138	1	0137	0138	1				IIIG
			CULG				0202	0204	2	0202	0204	2				IIIG
	2033	2400	CULG							2229.5						IIIB,W
12	0000	0733	CULG				0342.5									IIIB,W
			CULG							0516.5		1				IIIB
	2033	2400	CULG				2033	2400		2033	2400					IS,W
13	0000	0732	CULG				0000	0732		0000	0732					IS,W
			CULG							0227.5						IIIB,W
			CULG							0655.5		1				IIIB
			CULG							0715.5						IIIB,W
			CULG							0720.5						IIIB,W
	2032	2400	CULG				2032	2400		2032	2400					IS,W,DC
			CULG							2157	2157.5	2				IIIG
			CULG							2222.5	2223.5	2				IIIG
			CULG				2230	2235	1							IIIN
			CULG							2251	2252	2				IIIG
			CULG							2303	2315	1				IIIG
			CULG							2348	2354	1				IIIG
			CULG							2355	2358	2	2355	2358	1	IIIG,V
14	0000	0732	CULG				0000	0505		0000	0432					IS,W
			CULG							0011	0732	1				IIIN
			CULG							0224	0224.5	2				IIIG,U
			CULG				0505	0732	1	0432	0732	1				IS
			CULG							0514.5		2				IIIB
			CULG							0613	0615	2				IIIG,V
			CULG							0616	0617.5	3	0616	0617	1	IIIGG,V
			CULG							0620	0621	2				IIIG,V
			CULG							0653	0654	2				IIIG,V
			CULG							0701.5	0702.5	2				IIIGG
			CULG							0715.5		2				IIIB
	2032	2400	CULG				2032	2230	1	2032	2230	1				IS
			CULG							2036	2400					IIIN,W
			CULG							2250.5		2				IIIB
			CULG							2337.5		1				IIIB
			CULG							2343.5	2345	2				IIIG,U
15	0000	0732	CULG							0005	0732	1				IIIN
			CULG				0130	0215	1	0013	0215	1				IS
			CULG							0152.5	0154.5	2				IIIG,U

SOLAR RADIO EMISSION
SPECTRAL OBSERVATIONS

APRIL 1974

APR 1974	TIMES OF OBSERVATION		STATION	EVENTS													SPECTRAL TYPE
				CENTIMETRIC BAND			DECIMETRIC BAND			METRIC BAND			DEKAMETRIC BAND				
	START UT	END UT		START UT	END UT	INT.	START UT	END UT	INT.	START UT	END UT	INT.	START UT	END UT	INT.		
15			CULG				0215	0732	2	0215	0732	2					IS
			CULG							0247	0252	2					IIIGG,U
			CULG							0255.5	0256.5	2	0256	0257	1		IIIG,U
			CULG							0319	0320	2					IIIG,U
			CULG							0407	0409	1					IIIGG
			CULG							0425	0426	2					IIIG,V,U
			CULG							0528	0528.5	2					IIIG
	2032	2125	CULG							2032	2125	1					IIIN
			CULG				2032	2125	1	2032	2125	1					IS
	2220	2257	CULG							2220	2257	1					IIIN
			CULG				2220	2257	1	2220	2257	1					IS
	2306	2400	CULG							2306	2400	1					IIIN
			CULG				2306	2400	1	2306	2400	1					IS
			CULG							2359.5		1					IIIB,U
16	0000	0732	CULG				0011	0425		0008	0732						IIIN,W
			CULG				0340	0732		0000	0732						IS,W
			CULG							0622	0624	1					IIIG
			CULG							0720	0721	1					IIIG
			CULG							0724	0725	1					IIIG
			CULG							0727.5	0728.5	1					IIIG
			CULG				2032	2400	1	2032	2400	1					IS
	2032	2400	CULG							2032	2400	1					IIIN
			CULG				2145	2145.5	1	2145	2145.5	2					IIIG,U
			CULG							2254	2255	2					IIIG,U
			CULG							2315	2315.5	2					IIIG,U
			CULG							2321	2324	2					IIIG,U
			CULG							2332	2334	2					IIIG,V
			CULG				2343	2344	1	2343	2345	2					IIIG
			CULG				2357	2358	1	2357	2358	2					IIIG,U
17	0000	0732	CULG				0000	0306		0000	0640.5						IS,W
			CULG							0022	0730						IIIN,W
			CULG							0120.5	0124.5	2	0122	0124.5	1		IIIGG,V
			CULG				0303	0304	1	0302	0304	2					IIIG,V,U
			CULG							0415	0415.5	2					IIIG,U
			CULG							0651.5	0653	2					IIIG,U
	2032	2400	CULG				2032	2400	1	2032	2400	1					IS
			CULG							2032	2400	1					IIIN,U
			CULG							2043	2045	2					IIIG,V,U
			CULG							2059	2101	2					IIIG,V,U
			CULG							2104	2109	2					IIIGG,V,U
			CULG							2116	2117	2					IIIG,U
			CULG							2158	2159	1					IIIG
			CULG				2239.5	2242	1	2238	2250	2					IIIGG,V,U
			CULG							2324	2325	1					IIIG,V
			CULG							2355.5	2356.5	1					IIIG,V,U
18	0000	0731	CULG				0000	0731	1	0000	0220	1					IS
			CULG							0008	0731	1					IIIN,U
			CULG							0004.5	0005	1					IIIG,V,U
			CULG							0021	0023	1					IIIG,U
			CULG							0220	0731	2					IS,DC
			CULG							0331.5		2					IIIB,V
			CULG							0344		2					IIIB
			CULG				0445	0445.5	1	0445	0446.5	2					IIIG,V,U
			CULG							0448	0449.5	2					IIIG,V,U
			CULG							0614	0615	1					IIIG,V,U
			CULG							0617	0619	2					IIIG,V,U
			CULG							0623.5		2					IIIB,V,U
	2031	2400	CULG				2031	2400	1	2031	2400	1					IS
			CULG							2031	2400						IIIN,W
			CULG							2359.5		1					IIIB
19			CULG							0008	0716						IIIN,W,U
			CULG				0000	0650		0000	0650						IS,W
	0000	0731	CULG							0000	0003	2					IIIGG,U
	2031	2400	CULG				2031	2330		2031	2400						IS,W
			CULG							2031	2400						IIIN,W
			CULG							2049		1					IIIB
			CULG							2128.5		1					IIIB
20	0000	0731	CULG							0000	0703						IS,W
			CULG							0008	0416						IIIN,W
	2031	2400	CULG							2047.5	2048.5	1					IIIG
			CULG				2140.5	2141.5	1								IIIG
			CULG							2332							IIIB,W
			CULG							2343.5							IIIB,W
21	0000	0730	CULG							0058	0058.5						IIIG,W
			CULG							0117							IIIB,W
			CULG							0119	0119.5						IIIG,W
			CULG							0243.5							IIIB,W
			CULG							0516							IIIB,W,U
			CULG							0522							IIIB,W
			CULG							0552	0552.5	1					IIIG
			CULG							0604		1					IIIB
	2031	2400	CULG							2049	2050	1					IIIG
			CULG							2233.5							IIIB,W,U
22	0000	0730	CULG							0639.5							IIIB,U,W

SOLAR RADIO EMISSION
SPECTRAL OBSERVATIONS

APRIL 1974

APR 1974	TIMES OF OBSERVATION		STATION	EVENTS												SPECTRAL TYPE
				CENTIMETRIC BAND			DECIMETRIC BAND			METRIC BAND			DEKAMETRIC BAND			
	START UT	END UT		START UT	END UT	INT.	START UT	END UT	INT.	START UT	END UT	INT.	START UT	END UT	INT.	
22	2031	2400	CULG							2043	2043.5					IIIG,W
			CULG							2107	2108					IIIG,V,W
23	0000	0730	CULG							0358.5	0359.5					IIIG,W
			CULG							0401						IIIB,W
	2031	2400	CULG							2136	2400	1				I
			CULG							2151						IIIB,W
			CULG							2210.5	2214	1				IIIG
			CULG							2217.5	2218.5	1				IIIG
24	0000	0730	CULG							0000	0152					IW
	2031	2400	CULG							2038.5		1				IIIB
			CULG							2147.5	2149.5	1				IIIG,U
			CULG							2157	2158	1				IIIG
			CULG							2207.5	2208.5	1				IIIG
			CULG							2228	2229	2				IIIG
			CULG							2244	2245	1				IIIG
			CULG							2257		2				IIIB
			CULG							2258.5	2300.5	2				IIIG
25	0000	0729	CULG							0009						IIIB,W
			CULG							0124						IIIB,W
			CULG							0241	0307	1				I
			CULG							0639		1				IIIB
			CULG							0709	0710	1				IIIG
			CULG							0711.5	0712.5					IIIG,W
	2031	2400	CULG							2107.5		1				IIIB,U
			CULG							2120.5	2123	1				IIIG,U
			CULG							2124.5	2127.5	2				IIIG,U
			CULG							2141.5		1				IIIB
			CULG							2145.5	2148	1				IIIG
			CULG							2212.5	2229	1				IIIGG,U
			CULG							2304.5	2305	2				IIIG,U
			CULG							2342	2344.5	2				IIIG,U
			CULG							2351.5	2352.5	2				IIIG,U
26	0000	0730	CULG							0012.5	0014	1				IIIG,U
			CULG							0137		1				IIIB
			CULG							0200.5						IIIB,W
			CULG							0202.5		1				IIIB,U
			CULG							0207.5						IIIB,W
			CULG							0233						IIIB,W
			CULG							0237.5	0238.5	2				IIIG,U
			CULG							0258						IIIB,W
			CULG							0345	0346.5	1				IIIG
			CULG							0350	0351	1				IIIG
			CULG							0458	0613					IS,W
			CULG							0505	0506	2				IIIB
			CULG							0507	0645.5					IIIN,W
			CULG							0625.5		2				IIIB,U
	2030	2400	CULG							2042	2219					IW
			CULG							2121	2316.5	1				IIIN
			CULG							2146.5	2149.5	2				IIIG,U,V
27	0000	0730	CULG							0049	0203	1				IIIN
			CULG							0123	0124	2				IIIG
			CULG							0149.5	0150.5	2	0149.5	0150.5	1	IIIG
			CULG							0202.5		1				IIIB,U
			CULG							0338	0339.5	1				IIIG,V
			CULG							0609.5	0722					IS,W
	2030	2400	CULG							2030	2400	1				IIIG,W
			CULG							2111		1				IIIB
			CULG				2149.5	2150	1	2142.5	2150.5	2	2149.5	2150	1	IIIGG
28	0000	0729	CULG							0000	0729	1				IIIG,W
			CULG							0102	0104.5	2				IIIG
			CULG				0236	0239	1	0235	0241	2	0235	0241	1	IIIGG
			CULG							0328	0331.5	2				IIIG
	2030	2400	CULG							2030	2400	1				IIIN
			CULG							2117.5	2120	2				IIIG
			CULG				2124.5	2130	1	2124.5	2132.5	2	2124.5	2128	1	IIIGG,U
			CULG							2137.5	2139.5	1				IIIG
			CULG							2147.5	2159.5	2	2151.5	2154	1	IIIGG
			CULG							2151	2153	2	2151	2153	1	IIIG
			CULG							2156	2157	2				IIIG
			CULG							2203.5	2208.5	1				IIIG
			CULG				2219	2221.5	1	2210.5	2222	2	2217	2222	1	IIIGG
29	0000	0730	CULG							0000	0730	1				IIIN
			CULG							0026.5	0039	2	0030	0037	1	IIIGG
			CULG				0042.5	0057.5	1	0041.5	0058	2	0044	0058	2	IIIGG
			CULG							0137	0147	2				IIIGG
			CULG							0508		2				IIIB
			CULG							0635.5	0640	2				IIIGG
	2030	2400	CULG							2037	2400	1				IIIS
			CULG				2047.5	2050	1	2043.5	2051	2				IIIGG
			CULG				2304.5	2305.5	1	2300	2306.5	2	2302	2305	1	IIIGG
			CULG							2336	2340	2				IIIGG
			CULG							2354.5	2358.5	2				IIIG,U
30	0000	0728	CULG							0005.5	0720	1				IIIS

SOLAR RADIO EMISSION
SPECTRAL OBSERVATIONS

APRIL 1974

APR 1974	TIMES OF OBSERVATION		STATION	EVENTS												SPECTRAL TYPE
				CENTIMETRIC BAND			DECIMETRIC BAND			METRIC BAND			DEKAMETRIC BAND			
	START UT	END UT		START UT	END UT	INT.	START UT	END UT	INT.	START UT	END UT	INT.	START UT	END UT	INT.	
30			CULG							0036	0041	2	0036	0041	1	IIIGG
			CULG							0047	0050	1				IIIGG
			CULG							0110	0112	1				IIIG
			CULG							0122	0125.5	1				IIIG
			CULG							0206	0213	2				IIIG
			CULG							0250	0257	2				IIIGG,U
			CULG							0301	0314.5	2				IIIGG,U
			CULG							0407.5	0408.5	1				IIIGG
			CULG							0445	0447.5	2				IIIG
			CULG							0534.5	0536	1				IIIG
	2030	2400	CULG							2051	2400	1				IIIS
			CULG				2128	2134.5	1	2126.5	2137	2				IIIGG
			CULG				2149.5	2158	1	2149	2150.5	2				IIIG
			CULG							2210	2348	2				IS
			CULG							2212	2218	2				IIIGG

SELECTED SOLAR EVENTS

APRIL 1974

Culgoora

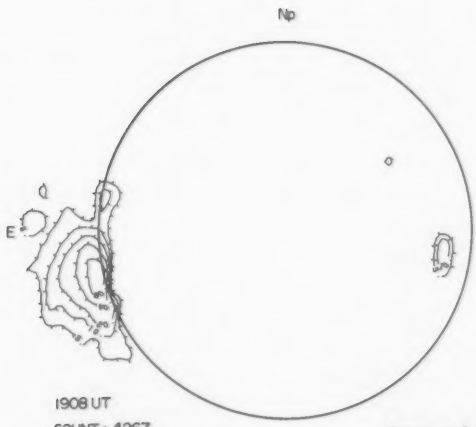
UT Date 1974. APRIL	HELIOGRAPH EVENT							Spectral Type	REMARKS
	Start (UT)	End (UT)	Freq. (MHz)	Positions: Central Dist. ($R_\odot$)	Positions: Position Angle (Deg.)	Polarization	Intensity (1-3)		
6	0409	0410	160	0.7	290	0	2	III G	Not at 80 or 43.25 MHz
14/15	2300	0500	160	1.1	250	0	1 - 2	I	
	2343	2345	(160	1.0	240	0	2)		
			(80	1.3	240	0	3)	III G	*
			(43.25	1.6	240	-	3)		
17	0121	0124	(160	0.7	240	0	2)		
			(80	0.8	240	0	3)	III GG, V	*
			(43.25	1.2	250	-	3)		
18	0440	0441	(160	1.1	240	0	2)		
			(80	1.5	240	0	2)	III B	*
			(43.25	2.0	240	-	2)		
	0442	0443	(160	1.3	200	0	1)		
			(80	1.7	210	0	3)	III B	*
			(43.25	1.9	220	-	3)		
19	0001	0003	(160	1.3	230	0	1 - 2)	III G	Not at 43.25 MHz
			(80	1.6	230	0	2)		
27	0122	0124	(80	1.2	70	0	2)	III G	Not at 160 MHz
			(43.25	1.2	70	-	3)		
	0337	0339	(80	1.1	130	0	1)	III G	Not at 160 MHz
			(43.25	1.1	130	-	2)		
28	0029	0034	(80	1.3	70	0	2)	III G	Not at 160 MHz *
			(43.25	1.6	70	-	3)		
29	0137	0141	(160	0.9	70	0	3)		
			(80	1.2	70	0	3)	III G	*
			(43.25	1.6	70	-	2)		
30	0250	0255	(160	1.0	90	0	3)		
			(80	1.0	70	0	3)	III G	*
			(43.25	1.1	40	-	2)		

Days without Heliograph observations: ..... Nil .....

* Other type III observed at same position during day

X R

NASA GSFC
OSO-7



1908 UT
COUNT = 4267
ROLL = 99.1°
P-TH = -5.85

29 APRIL 1974

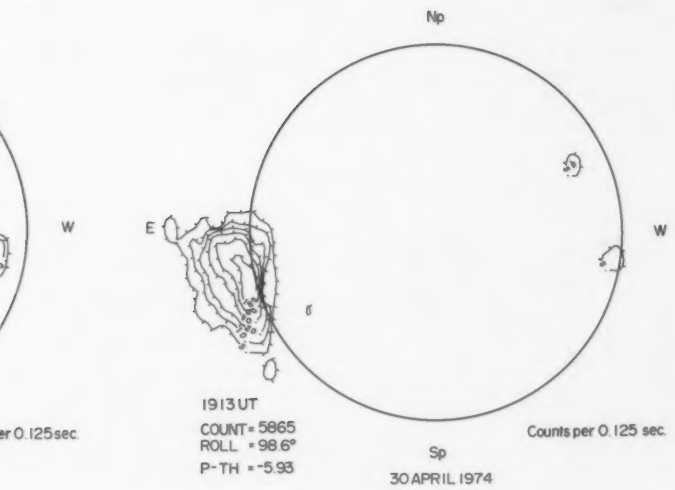
Counts per O.

X RAY SPECTROHELIOGRAMS
(errata)

X-RAY
8-16A

NASA GSFC
OSO-7

X-RAY
8-16A



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